

## **Historic, archived document**

Do not assume content reflects current scientific knowledge, policies, or practices.



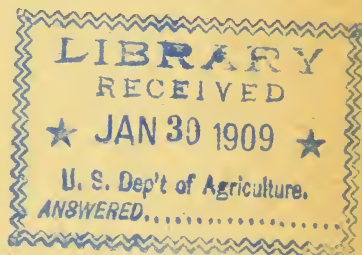
## U. S. DEPARTMENT OF AGRICULTURE.

OFFICE OF EXPERIMENT STATIONS—BULLETIN 206.

A. C. TRUE, Director.

ORGANIZATION LISTS OF THE  
AGRICULTURAL COLLEGES AND  
EXPERIMENT STATIONS  
IN THE UNITED STATES.

DECEMBER, 1908.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1909.

# U. S. DEPARTMENT OF AGRICULTURE.

## Scientific Bureaus.

WEATHER BUREAU—Willis L. Moore, *Chief*.  
 BUREAU OF ANIMAL INDUSTRY—A. D. Melvin, *Chief*.  
 BUREAU OF PLANT INDUSTRY—B. T. Galloway, *Chief*.  
 FOREST SERVICE—Gifford Pinchot, *Forester*.  
 BUREAU OF SOILS—Milton Whitney, *Chief*.  
 BUREAU OF CHEMISTRY—H. W. Wiley, *Chemist*.  
 BUREAU OF STATISTICS—V. H. Olmsted, *Statistician*.  
 BUREAU OF ENTOMOLOGY—L. O. Howard, *Entomologist*.  
 BUREAU OF BIOLOGICAL SURVEY—C. Hart Merriam, *Chief*.  
 OFFICE OF PUBLIC ROADS—L. W. Page, *Director*.

OFFICE OF EXPERIMENT STATIONS—A. C. True, *Director*.

## THE AGRICULTURAL EXPERIMENT STATIONS.

### ALABAMA—

College Station: *Auburn*; J. F. Duggar.<sup>a</sup>  
 Canebrake Station: *Uniontown*; F. D. Stevens.<sup>a</sup>  
 Tuskegee Station: *Tuskegee*; G. W. Carver.<sup>a</sup>

### ALASKA—*Sitka*; C. C. Georgeson.<sup>b</sup>

### ARIZONA—*Tucson*; R. H. Forbes.<sup>a</sup>

### ARKANSAS—*Fayetteville*; C. F. Adams.<sup>c</sup>

### CALIFORNIA—*Berkeley*; E. J. Wickson.<sup>a</sup>

### COLORADO—*Fort Collins*; L. G. Carpenter.<sup>a</sup>

### CONNECTICUT—

State Station: *New Haven*; E. H. Jenkins.<sup>a</sup>

Storrs Station: *Storrs*; L. A. Clinton.<sup>a</sup>

### DELAWARE—*Newark*; H. Hayward.<sup>a</sup>

### FLORIDA—*Gainesville*; P. H. Rolfs.<sup>a</sup>

### GEORGIA—*Experiment*; Martin V. Calvin.<sup>a</sup>

### GUAM—*Island of Guam*; H. L. V. Costenoble.<sup>b</sup>

### HAWAII—

Federal Station: *Honolulu*; E. V. Wilcox.<sup>b</sup>

Sugar Planters' Station: *Honolulu*; Noel Deerr.<sup>c</sup>

### IDAHO—*Moscow*; H. T. French.<sup>a</sup>

### ILLINOIS—*Urbana*; E. Davenport.<sup>a</sup>

### INDIANA—*Lafayette*; A. Goss.<sup>a</sup>

### IOWA—*Ames*; C. F. Curtiss.<sup>a</sup>

### KANSAS—*Manhattan*; E. H. Webster.<sup>a</sup>

### KENTUCKY—*Lexington*; M. A. Seovell.<sup>a</sup>

### LOUISIANA—

State Station: *Baton Rouge*;

Sugar Station: *Audubon Park*,  
*New Orleans*;

North La. Station: *Calhoun*;

### MAINE—*Orono*; C. D. Woods.<sup>a</sup>

### MARYLAND—*College Park*; H. J. Patterson.<sup>a</sup>

### MASSACHUSETTS—*Amherst*; W. P. Brooks.<sup>a</sup>

### MICHIGAN—*East Lansing*; R. S. Shaw.<sup>a</sup>

### MINNESOTA—*St. Anthony Park*, *St. Paul*; J. W. Olsen.<sup>a</sup>

### MISSISSIPPI—*Agricultural College*; W. L. Hutchinson.<sup>a</sup>

<sup>a</sup> Director.

<sup>b</sup> Special agent in charge.

### MISSOURI—

College Station: *Columbia*; H. J. Waters.<sup>a</sup>

Fruit Station: *Mountain Grove*; Paul Evans.<sup>a</sup>

### MONTANA—*Bozeman*; F. B. Linfield.<sup>a</sup>

### NEBRASKA—*Lincoln*; E. A. Burnett.<sup>a</sup>

### NEVADA—*Reno*; J. E. Stubbs.<sup>a</sup>

### NEW HAMPSHIRE—*Durham*; E. D. Sanderson.<sup>a</sup>

### NEW JERSEY—*New Brunswick*; E. B. Voorhees.<sup>a</sup>

### NEW MEXICO—*Agricultural College*; Luther Foster.<sup>a</sup>

### NEW YORK—

State Station: *Geneva*; W. H. Jordan.<sup>a</sup>

Cornell Station: *Ithaca*; L. H. Bailey.<sup>a</sup>

### NORTH CAROLINA—

College Station: *West Raleigh*; C. B. Williams.<sup>a</sup>

State Station: *Raleigh*; B. W. Kilgore.<sup>a</sup>

### NORTH DAKOTA—*Agricultural College*; J. H. Worst.<sup>a</sup>

### OHIO—*Wooster*; C. E. Thorne.<sup>a</sup>

### OKLAHOMA—*Stillwater*; B. C. Pittuck.<sup>c</sup>

### OREGON—*Corvallis*; J. Withycombe.<sup>a</sup>

### PENNSYLVANIA—

State College: *T. F. Hunt*.<sup>a</sup>

State College: *Institute of Animal Nutrition*,  
*H. P. Armsby*.<sup>a</sup>

### PORTO RICO—*Mayaguez*; D. W. May.<sup>b</sup>

### RHODE ISLAND—*Kingston*; H. J. Wheeler.<sup>a</sup>

### SOUTH CAROLINA—*Clemson College*; J. N. Harper.<sup>a</sup>

### SOUTH DAKOTA—*Brookings*; J. W. Wilson.<sup>a</sup>

### TENNESSEE—*Knoxville*; H. A. Morgan.<sup>a</sup>

### TEXAS—*College Station*; H. H. Harrington.<sup>a</sup>

### UTAH—*Logan*; E. D. Ball.<sup>a</sup>

### VERMONT—*Burlington*; J. L. Hills.<sup>a</sup>

### VIRGINIA—

*Blacksburg*; S. W. Fletcher.<sup>a</sup>

*Norfolk*; Truck Station, T. C. Johnson.<sup>d</sup>

### WASHINGTON—*Pullman*; R. W. Thatcher.<sup>a</sup>

### WEST VIRGINIA—*Morgantown*; J. H. Stewart.<sup>a</sup>

### WISCONSIN—*Madison*; H. L. Russell.<sup>a</sup>

### WYOMING—*Laramie*; J. D. Towar.<sup>a</sup>

<sup>c</sup> Acting director.

<sup>d</sup> Superintendent.



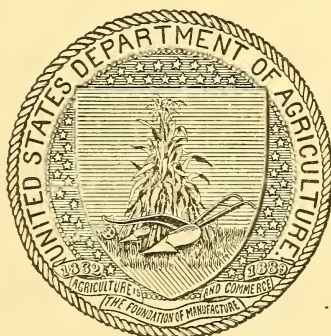
## U. S. DEPARTMENT OF AGRICULTURE.

OFFICE OF EXPERIMENT STATIONS—BULLETIN 206.

A. C. TRUE, Director.

ORGANIZATION LISTS OF THE  
AGRICULTURAL COLLEGES AND  
EXPERIMENT STATIONS  
IN THE UNITED STATES.

DECEMBER, 1908.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1909.

## LETTER OF TRANSMITTAL.

---

U. S. DEPARTMENT OF AGRICULTURE,  
OFFICE OF EXPERIMENT STATIONS,  
Washington, D. C., November 11, 1908.

SIR: I have the honor to transmit herewith a manuscript containing the revised organization lists of agricultural colleges and experiment stations in the United States, which has been compiled under my direction by Miss Mary A. Agnew of this Office.

It has been customary heretofore to include in these lists the names of all officers and teachers in the agricultural and mechanical colleges, but in this revision an effort has been made to confine the lists to the names of administrative officers and instructors whose work brings them in contact with students in agricultural and home economics courses, omitting those who deal exclusively with mechanic arts or engineering students. But while working to this plan, it has been found impracticable in some cases, owing to the complex organization of the institutions concerned, to make the lists entirely consistent.

I recommend the publication of this manuscript as Bulletin 206, of this Office.

Respectfully,

A. C. TRUE,  
*Director.*

HON. JAMES WILSON,  
*Secretary of Agriculture.*

---

## CONTENTS.

---

	Page.
Key to abbreviations.....	3
The Office of Experiment Stations.....	4
Officers of the Association of American Agricultural Colleges and Experiment Stations.....	5
Officers of the Association of Official Agricultural Chemists of the United States.....	6
Officers of the American Association of Farmers' Institute Workers.....	6
Officers of the American Association of Economic Entomologists.....	6
Officers of the Society for Horticultural Science.....	6
Agricultural colleges and experiment stations in the United States, with governing boards, courses of study, boards of instruction, and station staffs.....	7
Index of names.....	99

## KEY TO ABBREVIATIONS.

NOTE.—Members of boards of trustees or other governing boards of the college who are charged with the management of experiment station affairs are indicated by an asterisk (\*).

<i>Acct.</i> , Accountant, Accounts.	<i>Insp.</i> , Inspector, Inspection.
<i>Actg.</i> , Acting.	<i>Insts.</i> , Institutes.
( <i>Actg.</i> ), Acting Professor.	<i>Instr.</i> , Instruction, Instructor.
( <i>Adjunct</i> ), Adjunct Professor.	<i>Invest.</i> , Investigations.
<i>Agr.</i> , Agriculture, Agriculturist, Agricultural.	<i>Irrig.</i> , Irrigation, Irrigationist.
<i>Agron.</i> , Agronomy, Agronomist.	<i>Lab.</i> , Laboratory.
<i>Agt.</i> , Agent.	<i>Lang.</i> , Language, Languages.
<i>Anal.</i> , Analytical, Analysis.	<i>Lat.</i> , Latin.
<i>Anat.</i> , Anatomy.	<i>Lect.</i> , Lecturer.
<i>Arbor.</i> , Arboriculture, Arboriculturist.	<i>Libr.</i> , Library, Librarian.
<i>Arch.</i> , Architecture.	<i>Lit.</i> , Literature.
<i>Arith.</i> , Arithmetic.	<i>Mach.</i> , Machine, Machinery, Machinist.
<i>Assoc.</i> , Associate.	<i>Math.</i> , Mathematics.
( <i>Assoc.</i> ), Associate Professor.	<i>Mech.</i> , Mechanics, Mechanician, Mechanical.
<i>Asst.</i> , Assistant.	<i>Met.</i> , Meteorology, Meteorologist.
( <i>Asst.</i> ), Assistant Professor.	<i>Metal.</i> , Metallurgy.
<i>Astron.</i> , Astronomy.	<i>Mfg.</i> , Manufacturing.
<i>Bact.</i> , Bacteriology, Bacteriologist.	<i>Mgr.</i> , Manager.
<i>Bibliog.</i> , Bibliography, Bibliographer.	<i>Mil.</i> , Military.
<i>Biol.</i> , Biology, Biologist, Biological.	<i>Min.</i> , Mineralogy, Mineralogist, Mining.
<i>Blacksm.</i> , Blacksmithing.	<i>Mod.</i> , Modern.
<i>Bot.</i> , Botany, Botanist, Botanical.	<i>Myc.</i> , Mycology, Mycologist.
<i>Chair.</i> , Chairman.	<i>Nat.</i> , Natural.
<i>Chem.</i> , Chemist, Chemistry, Chemical.	<i>Org.</i> , Organic.
<i>Climat.</i> , Climatology, Climatologist.	<i>Ornith.</i> , Ornithology.
<i>Comdt.</i> , Commandant.	<i>Path.</i> , Pathology, Pathologist.
<i>Coml.</i> , Commercial.	<i>Pedag.</i> , Pedagogy, Pedagogics.
<i>Comr.</i> , Commissioner.	<i>Pharm.</i> , Pharmacy, Pharmacist.
<i>Corresp.</i> , Correspondence, Correspondent.	<i>Philos.</i> , Philosophy.
<i>Dcpt.</i> , Department.	<i>Photog.</i> , Photography.
<i>Dir.</i> , Director.	<i>Phys.</i> , Physics, Physicist, Physical.
<i>Div.</i> , Division.	<i>Physiol.</i> , Physiology, Physiologist, Physiological.
<i>Dom.</i> , Domestic.	<i>Polit.</i> , Political.
<i>Draw.</i> , Drawing.	<i>Pomol.</i> , Pomology, Pomologist.
<i>Econ.</i> , Economy, Economic, Economics.	<i>Pract.</i> , Practice, Practical.
<i>Ed.</i> , Education.	<i>Prep.</i> , Preparatory.
<i>El.</i> , Elementary.	<i>Pres.</i> , President.
<i>Elect.</i> , Electrical, Electricity.	<i>Prin.</i> , Principal.
<i>Engin.</i> , Engineer, Engineering.	<i>Psych.</i> , Psychology.
<i>Engl.</i> , English.	<i>Rhet.</i> , Rhetoric.
<i>Ent.</i> , Entomology, Entomologist.	<i>Sci.</i> , Science, Scientific.
<i>Expt.</i> , Experiment, Experimental, Experimentalist, Experimenter.	<i>Sec.</i> , Secretary.
<i>Ext.</i> , Extension.	<i>Sew.</i> , Sewing.
<i>Feed.</i> , Feeding.	<i>Sociol.</i> , Sociology.
<i>Fert.</i> , Fertilizer.	<i>Sta.</i> , Station.
<i>Flor.</i> , Floriculture, Florist.	<i>Sten.</i> , Stenography, Stenographer.
<i>For.</i> , Forestry.	<i>Substa.</i> , Substation.
<i>Gard.</i> , Gardener, Gardening.	<i>Supt.</i> , Superintendent.
<i>Gen.</i> , General.	<i>Tech.</i> , Technology, Technical.
<i>Geog.</i> , Geography.	<i>Treas.</i> , Treasurer.
<i>Geol.</i> , Geology, Geologist, Geological.	<i>Typew.</i> , Typewriting, Typewriter.
<i>Gov.</i> , Governor.	<i>Univ.</i> , University.
<i>Hist.</i> , History, Historical.	<i>V. Dir.</i> , Vice-Director.
<i>Hort.</i> , Horticulture, Horticulturist.	<i>Veg.</i> , Vegetable, Vegetation.
<i>Husb.</i> , Husbandry, Husbandman.	<i>Vet.</i> , Veterinary, Veterinarian.
<i>Hyg.</i> , Hygiene.	<i>Vit.</i> , Viticulture, Viticulturist.
<i>Indus.</i> , Industrial, Industries, Industry.	<i>V. Pres.</i> , Vice-President.
<i>Inorg.</i> , Inorganic.	<i>Wheelwr.</i> , Wheelwrighting.
	<i>Zool.</i> , Zoology, Zoologist.

## THE OFFICE OF EXPERIMENT STATIONS.

---

A. C. TRUE, Ph. D., Sc. D., Director.  
E. W. ALLEN, Ph. D., Assistant Director and Editor of Experiment Station Record.  
W. H. BEAL, A. B., M. E., Chief of Editorial Division.  
Mrs. C. E. JOHNSTON, Chief Clerk.  
SARAH L. SOMMERS, Record Clerk.  
E. LUCY OGDEN, Librarian.

### EDITORIAL DEPARTMENTS.

W. H. BEAL, Meteorology, soils, and fertilizers.  
W. H. EVANS, Agricultural botany and vegetable pathology.  
C. F. LANGWORTHY, Ph. D., Foods and human nutrition.  
J. I. SCHULTE, B. S., Field crops.  
E. J. GLASSON, B. S. A., Horticulture and forestry.  
J. B. MORMAN, A. M., Rural economics.  
W. A. HOOKER, B. S., Economic zoology, entomology, and veterinary medicine.  
E. W. MORSE, B. S. A., Animal production, dairying, and agrotechny.  
D. J. CROSBY, M. S., Agricultural education.  
G. A. GRIFFIN, B. S., Rural engineering.  
H. L. KNIGHT, B. S., Editorial assistant.  
T. K. BURROWS, B. A., Editorial assistant.  
WILLIAM HENRY, Indexing and proof reading.

### INSULAR STATIONS.

W. H. EVANS, Ph. D., Chief.

#### ALASKA EXPERIMENT STATIONS.

C. C. GEORGESON, M. S., Special agent in charge, Sitka.  
G. W. GASSER, B. S., Assistant at Rampart.  
R. W. DE ARMOND, Assistant at Sitka.  
CHAS. W. H. HEIDEMAN, Assistant at Copper Center.  
M. D. SNODGRASS, Assistant at Kodiak.  
J. W. NEAL, Assistant at Fairbanks.

#### GUAM EXPERIMENT STATION.

H. L. V. COSTENOBLE, Special agent in charge, Island of Guam.

#### HAWAII EXPERIMENT STATION.

E. V. WILCOX, Ph. D., Special agent in charge, Honolulu.  
D. L. VAN DINE, B. S. A., Entomologist.  
D. T. FULLAWAY, A. B., Assistant entomologist.  
J. E. HIGGINS, B. A., M. S. A., Horticulturist.  
C. J. HUNN, B. S. A., Assistant horticulturist.  
W. P. KELLEY, M. S., Chemist.  
ALICE R. THOMPSON, B. S., Assistant chemist.  
F. G. KRAUSS, in charge of rice investigations.  
Q. Q. BRADFORD, Assistant in rubber investigations.

#### PORTO RICO EXPERIMENT STATION.

D. W. MAY, M. Agr., Special agent in charge, Mayaguez.  
W. V. TOWER, B. S., Entomologist.  
M. J. IORNS, Ph. D., Horticulturist.  
J. W. VAN LEENHOFF, Coffee expert.  
P. L. GILE, A. B., Chemist.  
E. G. RITZMAN, Assistant animal husbandman.  
G. L. FAWCETT, Assistant plant pathologist.

#### AGRICULTURAL EDUCATION.

D. J. CROSBY, M. S., Specialist in agricultural education.  
JOHN HAMILTON, B. S., M. S. A., Farmers' institute specialist.

## NUTRITION INVESTIGATIONS.

C. F. LANGWORTHY, Ph. D., Expert in nutrition investigations.  
R. D. MILNER, Ph. B., Assistant in nutrition investigations.

## IRRIGATION INVESTIGATIONS.

SAMUEL FORTIER, D. Sc., Chief of irrigation investigations.

R. P. TEELE, M. A., Editorial assistant and acting chief in absence of the chief.

*Irrigation engineers and irrigation managers.*—A. P. STOVER, in charge of work in Oregon; C. E. TAIT, in charge of work in Imperial Valley and Arizona; F. W. ROEDING, in charge of work in California; S. O. JAYNE, in charge of work in Washington; W. W. McLAUGHLIN, in charge of work in Utah; P. E. FULLER, in charge of power investigations; O. W. BRYANT, in charge of work in Colorado and Wyoming; W. L. ROCKWELL, in charge of work in Texas; DON H. BARK, in charge of work in Kansas.

*Assistant irrigation engineers.*—V. M. CONE, H. I. MOORE, F. L. BIXBY.

*Expert mechanic.*—E. J. HOFF.

*Irrigation farmers.*—JOHN GORDON, R. G. HEMPHILL, W. H. LAUCK, R. E. MAHONEY, JOHN KRALL.

## COLLABORATORS.

O. V. P. STOUT, in charge of work in Nebraska, University of Nebraska.

B. P. FLEMING, in charge of work in New Mexico, New Mexico Agricultural College.

G. H. TRUE, in charge of work in Nevada, University of Nevada.

ELIAS NELSON, in charge of work in Idaho, Idaho Agricultural College.

W. B. GREGORY, in charge of rice irrigation in Louisiana and Texas, Tulane University, New Orleans.

## DRAINAGE INVESTIGATIONS.

C. G. ELLIOTT, C. E., Chief of drainage investigations.

*Supervising drainage engineers.*—J. O. WRIGHT, A. E. MORGAN, W. J. McEATHRON.

*Drainage engineers.*—C. F. BROWN, L. L. HIDINGER, LAWRENCE BRETT, H. A. KIPP, S. H. McCRORY.

*Assistant drainage engineers.*—D. G. MILLER, OMER FAIRLEY, W. W. WEIR, F. F. SHAFER, O. G. BAXTER, H. M. LYNDE, G. A. GRIFFIN, G. R. BOYD.

*Office engineer.*—R. D. MARSDEN.

## OFFICERS OF THE ASSOCIATION OF AMERICAN AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS.

*President.*—M. A. SCOVELL, of Kentucky.

*Vice-Presidents.*—W. J. KERR, of Oregon; C. E. THORNE, of Ohio; H. T. FRENCH, of Idaho; W. D. GIBBS, of New Hampshire; A. B. STORMS, of Iowa.

*Secretary-Treasurer.*—J. L. HILLS, of Vermont.

*Bibliographer.*—A. C. TRUE, of Washington, D. C.

*Executive Committee.*—W. O. THOMPSON, of Ohio, Chairman; J. L. SNYDER, of Michigan; W. E. STONE, of Indiana; W. H. JORDAN, of New York; C. F. CURTISS, of Iowa.

*Sections.*—Section on College Work and Administration: P. H. MELL, of South Carolina, Chairman; W. J. KERR, of Oregon, Secretary. Committee on Programme: The CHAIRMAN and SECRETARY.

Section on Experiment Station Work: P. H. ROLFS, of Florida, Chairman; E. J. WICKSON, of California, Vice-Chairman; F. B. LINFIELD, of Montana, Secretary. Committee on Programme: The CHAIRMAN and SECRETARY; E. H. JENKINS, of Connecticut.

*Standing Committees.*—Committee on Instruction in Agriculture; A. C. TRUE, of Washington, D. C., Chairman; T. F. HUNT, of Pennsylvania; J. F. DUGGAR, of Alabama; W. E. STONE, of Indiana; H. T. FRENCH, of Idaho; H. C. WHITE, of Georgia.

Committee on Graduate Study: H. P. ARMSBY, of Pennsylvania; W. O. THOMPSON, of Ohio; BROWN AYRES, of Tennessee; M. H. BUCKHAM, of Vermont; HOWARD EDWARDS, of Rhode Island.

Committee on Extension Work: K. L. BUTTERFIELD, of Massachusetts, Chairman; C. R. VAN HISE, of Wisconsin; A. M. SOULE, of Georgia; W. M. HAYS, of Washington, D. C.; W. C. LATTI, of Indiana; C. F. CURTISS, of Iowa.

Committee on Experiment Station Organization and Policy: EUGENE DAVENPORT, of Illinois, Chairman; C. D. WOODS, of Maine; M. A. Scovell, of Kentucky; C. E. THORNE, of Ohio; H. J. WHEELER, of Rhode Island; E. B. Voorhees, of New Jersey.



## OFFICERS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS OF THE UNITED STATES.<sup>a</sup>

---

*President.*—W. D. BIGELOW, U. S. Department of Agriculture, Washington, D. C.

*Vice-President.*—W. A. WITHERS, of West Raleigh, N. C.

*Secretary.*—H. W. WILEY, U. S. Department of Agriculture, Washington, D. C.

*Executive Committee.*—The PRESIDENT; the VICE-PRESIDENT; the SECRETARY; E. F. LADD, of Agricultural College, N. Dak.; E. B. HOLLAND, of Amherst, Mass.

---

## OFFICERS OF THE AMERICAN ASSOCIATION OF FARMERS' INSTITUTE WORKERS.

---

*President.*—J. L. ELLSWORTH, of Boston, Mass.

*Vice-President.*—G. A. PUTNAM, of Toronto, Ontario, Canada.

*Secretary-Treasurer.*—JOHN HAMILTON, U. S. Department of Agriculture, Washington, D. C.

*Executive Committee.*—The PRESIDENT and the SECRETARY-TREASURER, ex-officio; A. M. SOULE, of Athens, Ga.; H. T. FRENCH, of Moscow, Idaho; F. H. HALL, of Aurora, Ill.

---

## OFFICERS OF THE AMERICAN ASSOCIATION OF ECONOMIC ENTOMOLOGISTS.

---

*President.*—W. E. BRITTON, of New Haven, Conn.

*First Vice-President.*—E. D. BALL, of Logan, Utah.

*Second Vice-President.*—H. E. SUMMERS, of Ames, Iowa.

*Secretary.*—A. F. BURGESS, U. S. Department of Agriculture, Washington, D. C.

---

## OFFICERS OF THE SOCIETY FOR HORTICULTURAL SCIENCE.

---

*President.*—W. A. TAYLOR, U. S. Department of Agriculture, Washington, D. C.

*Vice-Presidents.*—G. B. BRACKETT, U. S. Department of Agriculture, Washington, D. C.; L. H. BAILEY, of Ithaca, N. Y.

*Secretary-Treasurer.*—C. P. CLOSE, of College Park, Md.

*Assistant Secretary.*—L. C. CORBETT, U. S. Department of Agriculture, Washington, D. C.

*Executive Committee.*—W. A. TAYLOR (Pres. ex-officio), of Washington, D. C.; W. R. LAZENBY, (Chair.), of Columbus, Ohio; W. M. MUNSON, of Morgantown, W. Va.; JOHN CRAIG, of Ithaca, N. Y.; C. P. CLOSE, of College Park, Md.

---

<sup>a</sup> The list of referees of this association has not yet been announced.

## AGRICULTURAL COLLEGES AND EXPERIMENT STATIONS.

NOTE.—Members of boards of trustees or other governing boards of the college who are charged with the management of experiment station affairs are indicated by an asterisk (\*).

### ALABAMA.

#### Alabama Polytechnic Institute, Auburn.

##### GOVERNING BOARD.

Trustees: Gov. B. B. Comer (*Pres. ex officio*), *Montgomery*; H. C. Gunnels (*Supt. of Education, ex officio*), *Montgomery*; W. K. Terry, *Birmingham*; J. T. Frazer, *Mobile*; N. D. Denson, *Lafayette*; R. F. Ligon, jr., *Montgomery*; Tancred Betts, *Huntsville*; Wm. C. Davis,\* *Jasper*; H. L. Martin, *Ozark*; R. B. Barnes, *Opelika*; A. W. Bell, *Anniston*; W. F. Feagin, *Montgomery*; J. H. Drake (*Surgeon*), *Auburn*; R. W. Burton (*Sec.*), *Auburn*; Miss M. A. Glenn (*Treas.*), *Auburn*.

##### COURSES OF STUDY.

There are nine regular four-year courses (B. S. degree), viz: Agriculture, civil engineering, electrical engineering, mechanical engineering, mining engineering, architecture, pharmacy, general course, and chemistry and metallurgy; three-year courses in pharmacy (Ph. C.) and in veterinary medicine and surgery (D. V. M.); two-year courses in agriculture (certificate), mechanic arts, and pharmacy (Ph. G.); a one-year course in agriculture, and a summer school for farmers. Postgraduate work is offered.

##### BOARD OF INSTRUCTION.

Charles C. Thach, M. A., LL. D., *President; English and Political Economy.*

George Petrie, M. A., Ph. D., *Dean of Academic Depts.; Hist., Lat.*

Bennett B. Ross, M. S., *Dean of Agr. Sci.; Gen. and Agr. Chem.; State Chem.*

John J. Wilmore, M. E., *Dean of Engin. Faculty; Mech. Engin.; Dir. of Laboratories.*

Charles A. Cary, B. S., D. V. M., *Physiol., Vet. Sci.; State Vet.; in charge of Farmers' Insts.*

John F. Duggar, M. S., *Agr.*

John E. Wiatt, M. A., *Mod. Lang.*

Francis E. Lloyd, A. M., *Bot.*

James P. C. Southall, M. A., *Phys.*

Roger S. Mackintosh, B. Agr., *Hort., For.; State Hort.*

Benjamin S. Patrick, M. S., *Comdt.; Mil. Sci.*

George N. Mitcham, C. E., E. M., *Civil Engin.*

Bolling H. Crenshaw, B. S., M. E., *Math.*

Albert H. Wilson, M. S., *Math.*

Emerson R. Miller, M. S., *Pharm. Chem.*

R. L. Brown, E. M., *Geol., Min. Engin.*

W. E. Hinds, Ph. D., *Ent.*

Michael T. Fullan, M. E., *Mech. Draw., Mach. Design.*

Clifford Le R. Hare, M. S., M. A., *Phys. and Physiol. Chem.*

Daniel T. Gray, A. B., M. S., (*Assoc.*) *Animal Indus.*

Reuben D. Webb, M. S., ( <i>Assoc.</i> ) <i>Rhet.</i>	Cincinnatus D. Killebrew, M. S., <i>Instr.</i>
Arthur McB. Ransom, M. S., ( <i>Assoc.</i> )	<i>Phys.</i>
<i>Anal. and Metal. Chem.</i>	William Le R. Mitchell, M. E., <i>Instr.</i>
Luther N. Duncan, M. S., ( <i>Asst.</i> ) <i>Agr.</i>	<i>Mech. Arts.</i>
James R. Rutland, A. B., ( <i>Asst.</i> ) <i>Engl.</i> :	Wm. F. Turner, B. S., <i>Instr. Ent.</i>
<i>Libr.</i>	Percy F. Williams, B. S., <i>Asst. in Hort.</i>
Thomas Bragg, M. S., <i>Instr. Chem.</i>	Joseph W. Ridgway, B. S., <i>Asst. in Animal Indus.</i>
Berner L. Shi, C. E., <i>Instr. Math..</i>	Ernest W. Thornton, B. S., <i>Asst. in Chem.</i>
<i>Draw.</i>	I. S. McAdory, B. S., D. V. M., <i>Asst. in Vet. Sci.</i>
Dallas T. Herndon, M. S., <i>Instr. Engl..</i>	J. A. Walker, B. S., <i>Asst. in Hist.</i>
<i>Hist., Lat.</i>	Robt. E. Hodnette, B. S., <i>Asst. in Engl., Math.</i>
Michael J. Donahue, A. B., <i>Phys. Dir.</i> :	J. A. York, B. S., <i>Asst. in Pharm.</i>
<i>Instr. Engl., Math.</i>	Miss A. O. Shivers, <i>Asst. Libr.</i>
F. F. Cauthen, B. S., <i>Farm Supt.</i> ; <i>Recorder.</i>	
L. E. Case, D. V. M., <i>Instr. Vet. Sci.</i>	
Casper C. Certain, E. E., <i>Registrar.</i>	

**Agricultural Experiment Station of the Alabama Polytechnic Institute,**  
*Auburn.*

Department of the Alabama Polytechnic Institute, under the control of the  
Board of Trustees.

STATION STAFF.

J. F. Duggar, M. S., <i>Dir.</i> ; <i>Agr.</i>	I. N. Duncan, M. S., <i>Asst. Agr.</i>
C. A. Cary, B. S., D. V. M., <i>Vet.</i>	E. F. Cauthen, B. S., <i>Farm Supt.</i> ; <i>Recorder.</i>
F. E. Lloyd, A. M., <i>Bot.</i>	I. S. McAdory, B. S., D. V. M., <i>Asst. in Vet. Sci.</i>
R. S. Mackintosh, B. Agr., <i>Hort.</i>	P. F. Williams, B. S., <i>Asst. Hort.</i>
W. E. Hinds, Ph. D., <i>Ent.</i>	J. W. Ridgway, B. S., <i>Asst. in Animal Indus.</i>
D. T. Gray, A. B., M. S., <i>Animal Indus.</i>	N. E. Bell, B. S., <i>Asst. Chem.</i>
B. B. Ross, M. S., <i>Chem.</i>	W. F. Turner, B. S., <i>Asst. Ent.</i>
J. T. Anderson, Ph. D., <i>Chem., Soil and Crop Invest.</i>	L. E. Case, D. V. M., <i>Asst. Bact. and Path.</i>
C. Le R. Hare, M. S., M. A., <i>Chem.</i>	
A. McB. Ransom, M. S., M. A., <i>1st Asst. Chem.</i>	
Thomas Bragg, M. S., <i>2d Asst. Chem.</i>	

**Agricultural and Mechanical College for Negroes, Normal.**

GOVERNING BOARD.

Trustees: Gov. B. B. Comer, *Montgomery*; H. C. Gunnels (*Supt. of Education*), *Montgomery*; S. J. Mayhew (*Chair.*), *Huntsville*; D. A. Grayson (*Sec.*), *Huntsville*.

COURSES OF STUDY.

The college is divided into two departments—literary and industrial. The courses requiring four years for completion are as follows: Scientific, agricultural, and mechanical. Courses covering from one to four years are given in a number of different industrial and literary subjects.

## BOARD OF INSTRUCTION.

W. H. Councill, PH. D., *President; Chemistry.*

Henry Hopkins, M. S., *Math., Agr.*  
 Henrietta M. Archer, M. A., *Math.*  
 Hiram E. Archer, M. S., M. D., *Nat.*  
*and Phys. Sci.*  
 George Strong, *Agr.*  
 Emanuel P. Patterson, *Agr.*  
 Pearl L. Shines, *Supt. Dom. Sci., Dir.*  
*of Hospital; Nurse Training.*

Azalene Mason, *Laundress.*  
 Virginia Briggs, *Cooking, Housekeep-*  
*ing.*  
 Ada A. Epps, *Sew., Millinery.*  
 Evangaline M. King, *Preceptress, Dean.*  
*of Woman's Dept.; Engl.*

Canebrake Agricultural Experiment Station, *Uniontown.*

## GOVERNING BOARD.

Board of Control: J. A. Wilkinson (*Comr. of Agr. ex officio*), *Montgomery*; J. Huggins, *Newbern*; W. H. Tayloe, *Uniontown*; R. A. Hardie, *Uniontown*; Wm. Munford (*Treas.*), *Uniontown*; J. B. Garber, *Laneville*; J. F. Duggar, *Auburn.*

## STATION STAFF.

F. D. Stevens, B. S., *Director in charge.*

Agricultural School of the Tuskegee Normal and Industrial Institute, *Tuskegee Institute.*

## GOVERNING BOARD.

Board of Trustees: Seth Low (*Pres.*), *30 East Sixty-fourth st., New York City*; Wright W. Campbell\* (*V. Pres.*), *Tuskegee*; Warren Logan\* (*Treas.*), *Tuskegee Institute*; R. C. Bedford (*Sec.*), *832 Park ave., Beloit, Wis.*; George F. Peabody, *2 Rector st., New York City*; Paul M. Warburg, *52 William st., New York City*; Wm. G. Willcox, *27 William st., New York City*; H. H. Hanna, *Atlas Engine Works, Indianapolis, Ind.*; George A. Gordon, *Boylston st., Boston, Mass.*; R. O. Simpson, *Furman*; Robert C. Ogden, *125 East Fifty-sixth st., New York City*; John C. Grant, *4651 Drexel Boulevard, Chicago, Ill.*; V. H. Tulane, *433 South Ripley st., Montgomery*; Belton Gilreath, *Birmingham*; Chas. W. Hare,\* *Tuskegee*; Booker T. Washington,\* *Tuskegee Institute*; A. J. Wilborn,\* *Tuskegee*; Charles F. Dole, *Jamaica Plain, Mass.*; Wm. J. Schieffelin, *170 William st., New York City.*

## COURSES OF STUDY.

The institute is divided into five departments: Academic, Bible training school, mechanical industries, domestic economy or industries for girls, and agriculture.

The school of agriculture offers a four-year course in agriculture and two-year courses in live stock and dairying, truck gardening, poultry raising, agriculture, road building, landscape gardening, and fruit growing; also a two-year course in elementary agriculture for academic students. Postgraduate work is offered.

## BOARD OF INSTRUCTION.

Booker T. Washington, *Principal*.George W. Carver, M. S. Agr., *Dir. in charge of Farmers' Insts.*Thos. N. Cowan, *Farm Supt.*Geo. R. Bridgeforth, B. S., *Agr.*A. A. Turner, *Dairying.*H. H. Wheeler, *Dairying, Animal Husb.*John W. Yates, *Care of Grounds and Greenhouse.*C. W. Greene, *Truck Gard.*E. L. Faulkner, *Fruit Gard.*Mrs. B. T. Washington, *Dir. Indus. for Girls.*Maj. J. B. Ramsey, *Comdt.*Capt. G. C. Austin, *Asst. to Comdt.*Capt. W. H. Walcott, *Asst. to Comdt.*S. M. Russell, *Dom. Sci.*Katie Davis, *Dom. Sci.*Lillian R. Johnson, *Ladies' Tailoring.*Hattie E. King, *Dressmaking.*Margaret E. Smith, *Plain Sew.*Cornelia A. Vivian, *Millinery.*Ophelia Donaldson, *Laundrying.*Ruth Connover, *Laundrying.*Carrie C. Smith, *Upholstering, Mat-tress Making.*Octavia P. Ferguson, *Asst. to Dir.*Mary E. Davis, *Housekeeping.*Rosa M. Bass, *Housekeeping.*Sarah E. Powell, *Housekeeping.*John H. Palmer, *Registrar.*Chas. W. Wood, *Libr.*Amelia M. Cromwell, *Phys. Training.***Tuskegee Agricultural Experiment Station, Tuskegee Institute.**

Department of the Tuskegee Normal and Industrial Institute, under the control of the Board of Trustees of the Institute.

## STATION STAFF.

George W. Carver, M. S. Agr., *Dir.*George R. Bridgeforth, B. S., *Dir. Agr. Indus.*R. A. Clarke, *Asst. to Dir. Agr. Indus.*T. N. Cowan, *Farm Supt.*H. H. Wheeler, *Dairy Herd.*R. S. Pompey, *Asst. Dairy Herdsman.*C. W. Greene, *Truck Garden.*C. S. Woodard, *Beef Herd.*Wm. B. Williams, *Poultryman.*Washington A. Tate, *Asst. Dairy Herd.*Martin Van Dardhard, *Horses and Mules.*R. R. Robinson, *Asst. Horses and Mules.*Thomas M. Campbell, *Demonstrative and Farmers' Inst. Work.*R. L. Waggener, *Farm Mech.*E. L. Faulkner, *Fruit Growing.*L. J. Watkins, *Road Building and Construction Work.***ALASKA.**

**Alaska Agricultural Experiment Stations, Sitka, Copper Center, Rampart, Fairbanks, and Kodiak.**

Under the supervision of A. C. True, Director Office of Experiment Stations, United States Department of Agriculture.

## STATION STAFF.

C. C. Georgeson, M. S., *Special Agent in Charge, Sitka.*G. W. Gasser, B. S., *Asst. at Rampart.*R. W. De Armond, *Asst. at Sitka.*Charles W. H. Heideman, *Asst. at Copper Center.*M. D. Snodgrass, B. S., *Asst. at Kodiak.*J. W. Neal, *Asst. at Fairbanks.*



## ARIZONA.

## University of Arizona, Tucson.

## GOVERNING BOARD.

Board of Regents: M. P. Freeman (*Chancellor*), Tucson; Geo. J. Roskruege (*Sec.*), Tucson; Chas. H. Bayless (*Treas.*), Tucson; A. V. Grossetta, Tucson; Gov. Jos. H. Kibbey (*ex officio*), Phoenix; R. L. Long (*Supt. of Public Instr., ex officio*), Phoenix.

## COURSES OF STUDY.

The university offers six regular four-year courses of study leading to a degree, viz: Literary, scientific, metallurgy, mining engineering, civil engineering, and mechanical engineering; also short courses in agriculture and in mineralogy and assaying, and a four-year preparatory course.

## BOARD OF INSTRUCTION.

Kendric C. Babcock, PH. D., *President; History, Political Economy.*

Ernest S. Bates, PH. D., *Engl.*

John J. Thornber, B. S., A. M., *Biol.*

W. W. Henley, A. B., *Mech. Arts.*

R. W. Clothier, M. S., *Agr.; in charge of Farmers' Insts.*

Chas. A. Turrell, M. A., *Mod. Lang.*

Samuel V. McClure, Lieut., U. S. A. (Retired), *Mil. Sci. and Tactics.*

A. E. Douglass, A. B., *Phys., Geog.*

W. G. Medcraft, A. M., (*Asst.*) *Math.*

R. C. Benner, M. S., (*Asst.*) *Chem.*

Estelle G. Luttrell, M. A., *Instr. Engl.; Libr.*

Opal I. Tillman, B. S., *Instr. Dom. Sci., Bot.*

Caroline B. Singleton, A. B., *Instr. Engl.*

Ida C. Reid, B. S., PH. B., *Instr. Hist., Math.*

F. L. Kleeberger, B. S., (*Asst.*) *Phys. Training, French.*

H. A. E. Chandler, B. S., *Instr. Econ. and Hist.*

E. W. Waldron, B. A., *Instr. Engl.*

Helen Aldrich, M. A., *Instr. Mod. Lang.*

## Agricultural Experiment Station of University of Arizona, Tucson.

Department of the University of Arizona, under the control of the Board of Regents.

## STATION STAFF.

R. H. Forbes, M. S., *Dir.; Chem.*

J. J. Thornber, A. M., *Bot.*

A. E. Vinson, PH. D., *Biochem.*

F. W. Wilson, B. S., (*Phoenix*), *Assoc. Animal Husb.*

G. E. P. Smith, C. E., *Irrig. Engin.*

W. B. McCallum, PH. D., *Assoc. Bot.*

J. E. Coit, PH. D., (*Phoenix*), *Assoc. Hort.*

W. H. Ross, PH. D., *Asst. Chem.*

R. W. Clothier, M. S., *Agr.*

R. G. Mead, B. S., *Asst. Engin.*

T. D. A. Cockerell (*Boulder, Colo.*), *Consulting Ent.*

W. O. Hayes, *Sec.*

## ARKANSAS.

## College of Agriculture of the University of Arkansas, Fayetteville.

## GOVERNING BOARD.

Board of Trustees: Actg. Gov. X. O. Pindall\* (*ex officio Pres.*), Little Rock; Geo. B. Cook (*State Supt. of Public Instr., ex officio*), Little Rock; John E. Neeley (*Sec.*), Fayetteville; W. H. Morton (*Treas.*), Fayetteville; G. T.

Breckinridge,\* *Paragould*; John F. Rutherford, *Pine Bluff*; W. S. Goodwin,\* *Warren*; M. L. Davis, *Dardanelle*; F. P. Hall,\* *Fayetteville*; Gustave Jones,\* *Newport*; R. O. Herbert, *Greenwood*.

## COURSES OF STUDY.

The university offers the following four-year courses in the departments at Fayetteville: Five in engineering, leading to the degrees of B. M. E., B. C. E., B. E. E., B. Mi. E., and B. Ch. E., and one in chemistry, leading to the degree of B. S. C.; two in literature and science, leading, respectively, to the degrees of B. A. and B. S.; one in agriculture, leading to the degree of B. S. A.; and one in music, leading to the degree of B. Mus.; three short courses without degrees, students in which at the end of the sophomore year may change to one leading to one of the above degrees, viz, normal, mechanical engineering, and electrical engineering courses. There are also graduate courses and a two-year preparatory school. In addition to the above, the medical department and the law department, both at Little Rock, have courses of study leading to the degrees of M. D. and B. L., respectively.

## BOARD OF INSTRUCTION.

John N. Tillman, LL. D., *President of the University.*

C. F. Adams, B. Agr., A. M., M. D.,  
*Actg. Dean College Agr.; Ent.*

Charles G. Carroll, Ph. D., *Chem.,  
Phys.*

V. A. Hooper, *Dairy Husb.*

Frank W. Pickel, Ph. D., *Biol.*

John H. Reynolds, M. A., *Hist., Polit.  
Sci.*

D. Y. Thomas, Ph. D., (*Assoc.*) *Hist.,  
Polit. Sci.*

Carroll F. Armistead, B. A., Capt.,  
U. S. A., *Mil. Sci. and Tactics;  
Comdt.*

A. M. Harding, A. M., (*Adjunct*) *Math.*  
Hugh E. Morrow, B. S. A., (*Assoc.*)  
*Chem.*

Bolling J. Dunn, M. A., (*Assoc.*) *Math.*  
Edgar F. Shannon, B. A., *Engl.*

A. Marioni, M. A., *Romance Lang.*

Albert H. Purdue, B. A., *Geol., Min.*

Chas. H. Brough, Ph. D., *Econ., Sociol.*

Neil Carother, A. B., (*Adjunct*) *Econ.  
and Sociol.*

R. R. Dinwiddie, V. S., M. D., *Animal  
Husb., Path.*

W. M. Bruce, Ph. D., *Agr. Chem.*

Mrs. Estelle M. Blake, *Instr. Engl. and  
Mod. Lang.*

Jobelle Holcomb, M. A., *Instr. Engl.,  
Mod. Lang.; Matron of Women.*

Garland Greever, A. M., (*Adjunct*)  
*Engl. and Mod. Lang.*

Max Lentz, *German.*

Hazel A. Yates, *Musical Dir.*

Mrs. M. C. Bateman, *Vocal Music.*

Mrs. Willie V. Crockett, *Instr. Elo-  
cution.*

Mrs. Martha H. White, *Phys. Culture.*

W. A. Ramsey, B. S., *Prin. Prep. Dept.;  
Instr. Math.*

Robt. E. Philbeck, B. A., *Instr. Math.*

Mary B. Hargis, *Engl., Hist.*

Rowena Galloway, B. A., *Instr. Engl.,  
Lat.*

Mary A. Davis, *Instr. Engl., Hist.*

A. J. Thomas, *Instr. Math.*

S. A. Rowland, A. B., *Instr. Math.*

Rufus J. Nelson, M. S., *Agr.*

Ernest Walker, B. S. A., *Hort.*

Martin Nelson, M. S., *Agr.*

Elizabeth W. Jordon, B. S., *Instr.  
Engl., Hist.*

S. W. Moore, *Instr. Hist., Engl.*

Wilfrid Lenton, V. S., (*Adjunct*) *Vet.  
Sci.*

W. S. Jacobs, B. S. A., (*Adjunct*) *Agr.*

A. K. Short, B. S. A., (*Adjunct*) *Animal  
Husb.*

J. Lee Hewitt, B. S. A., (*Adjunct*)  
*Hort.*

Carl H. Tourgee, B. S. Agr., (*Adjunct*)  
*Dairy Husb.*

Erwin H. Shinn, *Math.*

Mrs. Stella R. Lawrence, *Libr.*

Martha Brownfield, *Asst. Libr.*

J. J. Dulaney, *Asst. Libr.*

## Arkansas Agricultural Experiment Station, Fayetteville.

Department of the University of Arkansas, under the control of the Board of Trustees.

## STATION STAFF.

Charles F. Adams, B. Agr., A. M., M. D., <i>Actg. Dir.; Ent.</i>	W. Lenton, V. S., <i>Vet.</i>
Victor A. Hooper, <i>Dairying, Animal Husb.</i>	J. L. Hewitt, B. S. A., <i>Asst. Hort.</i>
R. R. Dinwiddie, V. S., M. D., <i>Animal Husb., Path.</i>	C. H. Tourgee, B. S. Agr., <i>Asst. Dairy Husb.</i>
Ernest Walker, B. S. A., <i>Hort.</i>	W. S. Jacobs, B. S. A., <i>Asst. Agr.</i>
W. M. Bruce, Ph. D., <i>Chem.</i>	A. K. Short, B. S., <i>Asst. Animal Husb.</i>
Martin Nelson, M. S., <i>Agr.</i>	H. D. Young, B. S., <i>Asst. Chem.</i>
	Edith G. Black, <i>Executive Clerk, Libr.</i>

## CALIFORNIA.

College of Agriculture of the University of California, Berkeley.

## GOVERNING BOARD.

The Regents of the University: Gov. J. N. Gillett (*ex officio Pres.*), *Sacramento*; W. R. Porter (*Licut. Gov.*), *Watsonville*; Edward Hyatt (*State Supt. of Public Instr.*), *Sacramento*; B. F. Rush (*Pres. State Agr. Society*), *Suisun City*; R. J. Taussig,\* *313½ Statecnth st., San Francisco*; Benjamin Ide Wheeler (*Pres. of Univ.*), *1820 Seenic ave., Berkeley*; Isaias W. Hellman, *Wells-Fargo Nevada National Bank, San Francisco*; Chester Rowell, *Fresno*; Wm. H. Crocker, *Crocker National Bank, San Francisco*; C. W. Slack, *50½ Kohl Building, San Francisco*; J. B. Reinstein, *Mills Building, San Francisco*; J. E. Budd, *Stockton*; Mrs. Phoebe A. Hearst, *35½ Pine st., San Francisco*; A. W. Foster, *1210 James Flood Building, San Francisco*; Garret W. McEnerney, *1277 Jamcs Flood Building, San Francisco*; Frank S. Johnson, *213 Sansome st., San Francisco*; G. C. Earl,\* *608 Crocker Building, San Francisco*; J. W. McKinley, *Pacific Electric Building, Los Angeles*; Rev. P. C. Yorke, *1267 Sixteenth ave., Oakland*; J. A. Britton, *925 Franklin st., San Francisco*; F. W. Dohrmann, *201 Geary st., San Francisco*; Thos. R. Bard, *Hueneme*; H. Henderson (*Sec.*), *Berkeley*.

## COURSES OF STUDY.

The university comprises several departments. The college of agriculture has a four-year course in agriculture which leads to the degree of B. S., a four-year course in sugar technology, a six weeks' summer school for teachers, and a six months' course in agriculture, including animal industry, dairying, general agriculture, nutrition, entomology, and viticulture.

BOARD OF INSTRUCTION.<sup>a</sup>

Benjamin Ide Wheeler, Ph. D., LL. D., *President of the University*.

Edward J. Wickson, A. M., <i>Dean of Agr; Agr.</i>	Meyer E. Jaffa, M. S., <i>Nutrition.</i>
Eugene W. Hilgard, Ph. D., LL. D., <i>Agr. Emeritus, Chem.</i>	Robt. H. Loughridge, Ph. D., ( <i>Assoc.</i> ) <i>Agr. Geol., Chem.</i>
Wm. A. Setchell, Ph. D., <i>Bot.</i>	Chas. W. Woodworth, M. S., ( <i>Assoc.</i> ) <i>Ent.</i>
Leroy Anderson, Ph. D., <i>Agr. Prac.; Dir. Univ. Farm School.</i>	George W. Shaw, Ph. D., ( <i>Assoc.</i> ) <i>Agr. Tech.</i>

<sup>a</sup> Includes only instructors in subjects *directly relating to agriculture*. Other members of the university may give instruction to students pursuing the agricultural course.

Ralph E. Smith, B. S., (*Assoc.*) *Plant Path.*  
 E. W. Major, B. AGR., (*Assoc.*) *Animal Indus.*  
 George E. Colby, M. S., (*Asst.*) *Agr. Chem.*  
 Archibald R. Ward,<sup>a</sup> B. S. A., D. V. M., (*Asst.*) *Vet. Sci. Bact.*  
 J. H. Norton, M. S., (*Asst.*) *Fertilization.*  
 H. J. Quayle, A. B., (*Asst.*) *Ent.*  
 William B. Herms, B. S., M. A., (*Asst.*) *Ent.*  
 Clarence M. Haring, D. V. M., (*Asst.*) *Vet. Sci., Bact.*  
 Harvey M. Hall, PH. D., (*Asst.*) *Bot.*  
 Bernard A. Etcheverry, B. S., (*Asst.*) *Irrig. Engin.*

W. T. Clarke, B. S., (*Asst.*) *Hort.; Supt. of Farmers' Insts. and Univ. Ext. in Agr.*  
 H. A. Hopper, B. S. A., (*Asst.*) *Dairy Husb.*  
 E. B. Babcock, B. S., (*Asst.*) *Plant Path.*  
 John S. Burd, B. S., (*Asst.*) *Agr. Chem.*  
 Robert E. Mansell, *Instr. Hort.*  
 Ralph Benton, B. S., B. L., *Instr. Ent.*  
 Emil H. Hagemann, *Instr. Dairying.*  
 E. J. Lea, M. S., *Instr. Agr. Chem.*  
 Rachael Corr, B. S., M. A., *Asst. in Cereal Lab.*  
 D. R. Hoagland, A. B., *Asst. in Agr. Chem. Lab.*  
 M. E. Sherwin, B. S., *Field Asst. in Agron.*

Agricultural Experiment Station of the University of California, Berkeley.

Department of the University of California, under the control of the Regents of the University.

#### STATION STAFF.

E. J. Wickson, A. M., *Dir.; Hort.*  
 E. W. Hilgard, PH. D., LL. D., *Chem.*  
 W. A. Setchell, PH. D., *Bot.*  
 Elwood Mead,<sup>a</sup> C. E., D. E., *Irrig. Engin.*  
 Leroy Anderson, PH. D., *Dairy Indus.; Supt. of Univ. Farm.*  
 M. E. Jaffa, M. S., *Nutrition Expert; in charge of Poultry Sta.*  
 C. W. Woodworth, M. S., *Ent.*  
 R. H. Loughridge, PH. D., *Soil Chem. and Soil Phys.*  
 G. W. Shaw, PH. D., *Tech Agr.; in charge of Cereal Sta.*  
 Geo. E. Colby, M. S., *Chem. (Fruits, Waters, Insecticides); in charge of Chem. Lab.*  
 R. E. Smith, B. S., *Plant Path.; in charge of Southern California Path. Lab. and Expt. Sta.*  
 A. R. Ward,<sup>a</sup> B. S. A., D. V. M., *Vet., Bact.*  
 E. W. Major, B. AGR., *Animal Indus.*  
 H. M. Hall, PH. D., *Asst. Bot.*  
 H. J. Quayle, A. B., (*Whittier*), *Asst. Ent.*

W. T. Clarke, B. S., *Asst. Hort.; Supt. Univ. Ext. in Agr.*  
 J. S. Burd, B. S., *Chem. in Charge of Fert. Control.*  
 C. M. Haring, D. V. M., *Asst. Vet. and Bact.*  
 H. A. Hopper, B. S. A., M. S., (*Davis*), *Asst. Dairy Husb.*  
 J. H. Norton, M. S., (*Riverside*), *Asst. Chem. in charge of Fert. Expts.*  
 W. B. Herms, B. S., M. A., *Asst. Ent.*  
 T. F. Hunt, B. S., (*Riverside*), *Asst. Hort.*  
 E. B. Babcock, B. S., *Asst. Plant Path.*  
 E. H. Smith, M. S., *Asst. Plant Path.*  
 F. L. Yeaw, B. S., (*Vacaville*), *Asst. Plant Path.*  
 H. J. Ramsey, M. S., (*Whittier*), *Asst. Plant Path.*  
 C. O. Smith, M. S., (*Whittier*), *Asst. Plant Path.*  
 R. E. Mansell, *Asst. Hort.; in charge of Central Sta. Grounds.*  
 Ralph Benton, B. S., *Asst. Ent.*  
 E. H. Hagemann, (*Davis*), *Asst. in Dairying.*

<sup>a</sup> On leave.



E. J. Lea, M. S., *Asst. Agr. Chem.*  
 A. J. Gaumnitz, M. S., (*Davis*), *Asst. in Cereal Invest.*  
 Rachael Corr, B. S., M. A., *Asst. in Cereal Lab.*  
 Hans C. Holm, B. S., *Asst. in Zymology.*  
 P. L. McCreary, B. S., *Asst. in Fert. Control Lab.*  
 F. E. Johnson, B. L., *Asst. in Soil Lab.*  
 M. E. Stover, B. S., *Asst. in Agr. Chem. Lab.*

D. R. Hoagland, A. B., *Asst. in Agr. Chem. Lab.*  
 Charles Fuchs, *Curator Ent. Museum.*  
 P. L. Hibbard, B. S., *Asst. in Fert. Control Lab.*  
 M. E. Sherwin, B. S., *Field Asst. in Agron.*  
 W. H. Volck, (*Watsonville*), *Field Asst. in Ent.*  
 Earl L. Morris, B. S., (*San José*), *Field Asst. in Ent.*  
 J. S. Hunter, (*San Mateo*), *Field Asst. in Ent.*

## OUTLYING STATIONS.

San Joaquin Valley Station: John Tuohy, *Patron, Tulare*; J. T. Bearss, *Foreman, Tulare.*

Chico Forestry Station: J. W. Roper, *Patron, Chico*; E. C. Miller, *Workman in Charge.*

Santa Monica Forestry Station: Roy Jones, *Patron, Santa Monica*; N. D. Ingham, *Foreman, Santa Monica.*

Poultry Experiment Station: Vincent G. Huntley, *Foreman, Petaluma.*

Cereal Station: *Modesto.*

Southern California Pathological Laboratory: R. E. Smith, B. S., *Supt.*; Clayton O. Smith, M. S., *Asst. Plant Path.*; H. J. Ramsey, M. S., *Asst. Plant Path.*; H. J. Quayle, A. B., *Asst. Ent., Whittier.*

Southern California Experiment Station: J. H. Norton, M. S., *Asst. Chem. in charge of Fert. Expts.*; T. F. Hunt, B. S., *Asst. Plant Path., Riverside.*

University Farm: Leroy Anderson, Ph. D., *Supt.*; H. A. Hopper, B. S. A., M. S., *Asst. in Dairy Husb.*; E. H. Hagemann, *Instr. in Dairying, Davis.*

## COLORADO.

The State Agricultural College of Colorado, *Fort Collins.*

## GOVERNING BOARD.

The State Board of Agriculture: B. F. Rockafellow (*Pres.*), *Canon City*; A. M. Hawley (*Sec.*), *Fort Collins*; Chas. H. Sheldon (*Treas.*), *Fort Collins*; R. W. Corwin, *Pueblo*; A. A. Edwards (*V. Pres.*), *Fort Collins*; J. L. Chatfield, *Gypsum*; B. U. Dye, *Rockyford*; E. H. Grubb, *Carbondale*; Gov. H. A. Buchtel (*ex officio*), *Denver*; B. O. Aylesworth (*ex officio*), *Fort Collins*; F. E. Brooks,\* *Colorado Springs*; J. L. Brush,\* *Greeley.*

## COURSES OF STUDY.

There are eight four-year courses, viz: Agricultural, horticultural, mechanical engineering, irrigation and civil engineering, electrical engineering, general and domestic science, the course in general science for women (B. S.), and forestry; postgraduate courses, three-year course in veterinary science (D. V. S.), and short winter courses in practical agriculture, horticulture, domestic science, mechanic arts, and farriery. Theoretical and practical courses in library science and library economy are also offered.



## BOARD OF INSTRUCTION.

Barton O. Aylesworth, A. M., LL. D., LITT. D., *President; Political Economy and Logic.*

James W. Lawrence, M. E., *Dean of Faculty; Mech. Engin.*

Louis G. Carpenter, M. S., *Civil and Irrig. Engin.*

Wendell Paddock, M. S., *Bot., Hort.*

Clarence P. Gillette, M. S., *Zool., Ent.*

Geo. H. Glover, M. S., D. V. M., *Vet. Sci.*

Carl W. Gay, D. V. M., *Animal Husb.*

William P. Headden, A. M., PH. D., *Chem., Geol.*

Mary F. Rausch, *Dom. Sci.*

Edward B. House, M. S., E. E., (Assoc.) *Irrig. Engin.*

Alfred M. Hawley, *Sec. of the Faculty.*

Helen L. Grenfell, *High School Visitor, Field Lect.*

Virginia H. Corbett, B. L., *Hist., Lit.*

William R. Thomas, M. A., LITT. D., *Constitutional Hist. and Irrig. Law.*

Benjamin F. Coen, B. L., *Engl.*

Harry D. Humphrey, U. S. A. (Retired), *Mil. Sci. and Tactics.*

Alvin Keyser, B. S., M. A., *Agron.*

H. M. Cottrell, M. S., *Dir. of Farmers' Insts.*

H. M. Bainer, M. S. A., *Farm Mech., Instr. Dairying.*

G. E. Morton, B. S. A., *Animal Husb.*

Chas. G. Lamb, D. V. S., *Instr. Principles of Horseshoeing; State Vet.*

Clarence L. Barnes, D. V. M., *Vet. Sci.*

B. F. Kaupp, D. V. S., *Vet. Sci.*

Robt. E. Trimble, B. S., *Met., Irrig. Engin.*

Leslie F. Paull, A. M., PH. B., (Assoc.) *Hort.*

Burton O. Longyear, B. S., (Assoc.) *Bot., For.*

Frederick C. Alford, M. S., (Assoc.) *Chem.*

S. Arthur Johnson, M. S., (Assoc.) *Ent. and Zool.*

Charles Golding-Dwyre, jr., B. ACCT., *Bookkeeping.*

O. B. Whipple, B. S., *Hort. Field Agt.*

Earl Douglass, M. S., *Asst. Chem.*

Sarah I. Kettle, A. B., *Instr. Mod. Lang.*

Fritz Knorr, B. S., *Instr. Agron.*

Mary J. Brush, *Instr. Dom. Sci.*

Inga Allison, E. B., *Instr. Dom. Sci.*

Rebecca R. Boswell, *Instr. Dom. Art.*

James Pennycook, *Instr. Horseshoeing.*

Mrs. Lena D. Paull, *Asst. in Mod. Lang.*

E. R. Bennett, B. S., *Asst. in Hort.*

R. S. Herrick, B. S., *Asst. in Hort. and Landscape Gard.*

Margaret R. Frink, B. A., *Asst. in Math.*

Edna Carscadden, B. A., *Asst. in Engl.*

E. J. Iddings, B. S. A., *Asst. in Agr.*

H. B. Bonebright, B. S. A., *Asst. in Farm Mech.*

Chas. N. Cox, B. S., *Asst. in Chem.*

Wm. O'Brien, *Supt. College Farm.*

Joseph F. Daniels, *Libr. Sci.; Libr.*

## Agricultural Experiment Station, Fort Collins.

Department of the State Agricultural College of Colorado, under the control of the State Board of Agriculture.

## STATION STAFF.

L. G. Carpenter, M. S., *Dir.; Met., Irrig. Engin.*

C. P. Gillette, M. S., *Ent.*

W. P. Headden, A. M., PH. D., *Chem.*

Wendell Paddock, M. S., *Bot., Hort.*

B. O. Longyear, B. S., *Bot., For.*

G. H. Glover, M. S., D. V. M., *Vet.*

C. W. Gay, D. V. M., *Animal Husb.*

Alvin Keyser, B. S., M. A., *Agron.*

G. E. Morton, B. S. A., *Animal Husb.*  
O. B. Whipple, B. S., (Grand Junction), *Field Hort.*

W. G. Sackett, B. S., *Bact.*

A. M. Hawley, *Sec.*

F. C. Alford, M. S., *Asst. Chem.*

Earl Douglass, M. S., *Asst. Chem.*

R. E. Trimble, B. S., *Asst. Met., Irrig. Engin.*

E. B. House, M. S., E. E., *Asst. Irrig. Engin.*  
 S. Arthur Johnson, M. S., *Asst. Ent.*  
 Miriam A. Palmer, A. M., *Sta. Illustrator.*  
 L. C. Bragg, *Asst. Field Ent.*  
 H. M. Bainer, B. S., *Farm Mach.*

Philo K. Blinn, B. S., *Field Agt., Arkansas Valley Substa., Rockyford.*  
 Fritz Knorr, B. S., *Asst. Agron.*  
 Geo. P. Weldon, B. S., (*Delta*), *Field Ent.*  
 E. R. Bennett, B. S., *Field Asst. (Potato Invest.).*

### CONNECTICUT.

The Connecticut Agricultural Experiment Station, *New Haven.*

#### GOVERNING BOARD.

State Board of Control: Gov. Rollin S. Woodruff (*ex officio Pres.*), *Hartford*; W. H. Brewer (*Sec.*), *New Haven*; H. W. Conn, *Middletown*; B. W. Collins, *Meriden*; F. H. Stadtmueller, *Elmwood*; C. M. Jarvis, *Berlin*; E. H. Jenkins (*Treas.*), *New Haven*; J. H. Webb, *Box 1425, New Haven.*

#### STATION STAFF.

Edward H. Jenkins, PH. D., *Dir.*  
 John P. Street, M. S., *Chief Chem.*  
 T. B. Osborne, PH. D., *Chem.*  
 E. Monroe Bailey, PH. B., *1st Asst. Chem.*  
 Clifford B. Morrison, *Chem.*  
 Chas. A. Brautlecht, PH. B., *Chem.*  
 Clarence W. Rodman, B. S., *Chem.*  
 Wilton E. Britton, PH. D., *Ent.; State Ent.*

B. H. Walden, B. AGR., *Asst. Ent.*  
 George P. Clinton, S. D., *Bot.*  
 Edward M. East, PH. D., *Agron.*  
 Austin F. Hawes, A. B., M. F., *in charge of Forest Work and State For.*  
 V. E. Cole, *Libr., Clerk.*  
 Hugo Lange, *Lab. Asst.*  
 J. B. Olcott, *Grass Gard. (South Manchester).*  
 V. L. Churchill, *Sampling Agt.*

The Connecticut Agricultural College, *Storrs.*<sup>a</sup>

#### GOVERNING BOARD.

Board of Trustees: Gov. Rollin S. Woodruff (*ex officio Pres.*), *Hartford*; E. H. Jenkins, *New Haven*; G. A. Hopson, *Wallingford*; B. C. Patterson, *Torington*; E. S. Henry, *Rockville*; G. S. Palmer (*V. Pres.*), *New London*; D. W. Patten\* (*Treas.*), *Clintonville*; C. A. Capen,\* *Willimantic*; A. J. Pierpont, *Waterbury*; L. J. Storrs,\* *Mansfield Center*; H. G. Manchester,\* *Winsted.*

#### COURSES OF STUDY.

B. S. course open to graduates of high schools in agriculture. Three two-year courses open to graduates of high schools (diploma upon graduation), as follows: Agriculture (dairying and poultry culture, and horticulture), mechanic arts, home economics. Three four-year courses open to graduates of common schools (diploma upon graduation), as follows: Agriculture (dairying and poultry culture, and horticulture), mechanic arts, home economics.

Summer school of about four weeks, for teachers and others, in nature study and agriculture. Two twelve weeks' winter courses in dairying and pomology; a six weeks' poultry course and a six weeks' course in forestry.

<sup>a</sup> Telegraph address, *Storrs* via *Willimantic*; railroad station, express, and freight address, *Aglerville.*

## BOARD OF INSTRUCTION.

C. L. Beach, B. S., B. Agr., *President*.

Louis A. Clinton, M. S., *Agron.*  
 Alfred G. Gulley, M. S., *Hort.*  
 J. M. Trueman, B. S. A., *Dairy Husb.*  
 Chas. A. Wheeler, M. A., *Math.*  
 Henry R. Monteith, B. A., *Hist., Engl.*  
 Edwin O. Smith, B. S., *Engl., Polit.*  
*Econ.; Sec. of Faculty.*  
 Albert F. Blakeslee, Ph. D., *Bot.*  
 Alberta T. Thomas, *Dom. Sci., Lady*  
*Prin.*  
 Wm. M. Esten, Ph. B., *Dairy Bact.*  
 F. H. Stoneburn, *Poultry Husb.*  
 George H. Lamson, jr., B. Agr., M. S.,  
*Instr. Geol., Ent.*

John N. Fitts, B. Agr., *Instr. Mech.*  
*Arts.*  
 Edwina M. Whitney, Ph. B., *Instr.*  
*German; Libr.*  
 Orpha C. Smith, *Instr. Elocution, Engl.*  
 H. D. Edmond, B. S., *Instr. Mil. Sci.*  
 Harry L. Garrigus, B. Agr., *Instr. Ani-*  
*mal Husb.; Farm Supt.*  
 Austin F. Hawes, M. F., *Instr. For.;*  
*State For.*  
 A. T. Stevens, M. S., *Instr. Hort.*  
 L. M. Parker, *Instr. Greenhouse Work.*  
 Elizabeth Donovan, *Asst. in Chem.,*  
*Phys.*  
 Abby M. Hicks *Instr. Music.*

Storrs Agricultural Experiment Station, *Storrs.*<sup>a</sup>

Department of the Connecticut Agricultural College, under the control of the  
 Board of Trustees.

## STATION STAFF.

L. A. Clinton, M. S., *Dir.*  
 J. M. Trueman, B. S. A., *Dairy Husb.*  
 F. H. Stoneburn, *Poultryman.*  
 Wm. M. Esten, Ph. B., *Dairy Bact.*  
 C. D. Jarvis, B. S. A., *Hort.*  
 Geo. H. Lamson, jr., B. Agr., M. S., *Ent.*  
 H. D. Edmond, B. S. Agr., *Chem.*

Chas. Thom,<sup>b</sup> Ph. D., *Cheese Expert,*  
*Myc.*  
 Arthur W. Dox,<sup>b</sup> B. S., A. M., *Cheese*  
*Expert, Chem.*  
 Clinton Grant,<sup>b</sup> *Cheese Maker.*  
 Christie J. Mason,<sup>c</sup> B. Agr., *Asst. Bact.*  
 Grace E. Seage, *Asst. Bact.*

## DELAWARE.

Delaware College, *Newark.*

## GOVERNING BOARD.

Board of Trustees: C. B. Lore (*Pres.*), *Wilmington*; Manlove Hayes\*  
 (*V. Pres.*), *Dover*; C. B. Evans (*Sec. and Treas.*), *Newark*; Gov. Preston Lea  
 (*ex officio*), *Dover*; G. A. Harter\* (*ex officio*), *Newark*; H. G. M. Kollock,  
*Newark*; J. C. Higgins, *Delaware City*; G. W. Marshall, *Milford*; J. H. White-  
 man, *Wilmington*; George Biddle, *Elkton*; F. W. Curtis, *Newark*; W. T.  
 Lynam, *Wilmington*; D. W. Corbit,\* *Odessa*; Edward Reynolds, *Middletown*;  
 L. H. Ball, *Marshallton*; L. P. Bush, *Wilmington*; J. E. Addicks, *Claymont*;  
 J. C. Stockly, *Smyrna*; James Pennewill, *Dover*; C. S. Conwell, *Camden*; Geo.  
 G. Kerr,\* *Newark*; J. E. Dutton, *Seaford*; E. R. Paynter, *Georgetown*; W. H.  
 Stevens, *Seaford*; John Biggs, *Wilmington*; W. Watson Harrington, *Dover*;  
 Lewis W. Mustard, *Leves*; S. H. Messick,\* *Bridgeville*; S. H. Derby,\* *Wood-*  
*side*; Thomas Davis, *Wilmington*; J. H. Hossinger, *Newark*.

<sup>a</sup> Telegraph address, *Storrs* via *Willimantic*; railroad station, express, and freight  
 address, *Eagleville*.

<sup>b</sup> In the service of the U. S. Department of Agriculture.

<sup>c</sup> On leave.

## COURSES OF STUDY.

There are seven regular four-year courses, viz: Classical and Latin scientific (B. A.), agricultural and general science (B. S.), and three engineering courses (B. S. in civil, mechanical, or electrical engineering); four-year agricultural (no degree), a two-year course and a one week's winter course in agriculture.

## BOARD OF INSTRUCTION.

Geo. A. Harter, M. A., PH. D., *President; Mathematics and Physics.*

Theo. R. Wolf, M. A., PH. D., <i>Chem., Min., Sanitary Sci., Geol.</i>	Chas. A. McCue, M. S., <i>Hort.</i>
Edgar S. Stayer, 1st Lieut., U. S. A., <i>Mil. Sci. and Tactics; Comdt.</i>	Melville T. Cook, PH. D., <i>Bot.</i>
Henry Hayward, M. S. Agr., <i>Animal Husb.; Dean Dept. Agr.</i>	Arthur E. Grantham, B. A., B. S. A., <i>Agron.</i>
W. Owen Sypherd, M. A., PH. D., <i>Engl., Polit. Sci.</i>	Firman Thompson, B. S., <i>Agr. Chem.</i>
Chas. F. Dawson, M. D., D. V. S., <i>Vet. Sci.</i>	Clinton O. Houghton, A. B., <i>Zool., Ent.</i>
	H. E. Tiffany, M. S., <i>Instr. Chem.</i>
	Herbert S. Jackson, B. A., <i>Instr. Bot.</i>
	Stanley P. Shugert, B. A., <i>Instr. Math., Engl.</i>

The Delaware College Agricultural Experiment Station, *Newark.*

Department of Delaware College, under the control of the Board of Trustees.

## STATION STAFF.

Harry Hayward, M. S. Agr., <i>Dir.</i>	A. E. Grantham, B. A., B. S. A., <i>Agron.</i>
C. O. Houghton, A. B., <i>Ent.</i>	Firman Thompson, B. S., <i>Chem.</i>
C. F. Dawson, M. D., D. V. S., <i>Vet.</i>	Perle A. Dutton, <i>Farm Supt.</i>
C. A. McCue, M. S., <i>Hort.</i>	Lottie W. Baker, <i>Sec.</i>
M. T. Cook, PH. D., <i>Plant Path.</i>	

State College for Colored Students, *Dover.*

## GOVERNING BOARD.

Board of Trustees: C. B. Lore (*Pres.*), *Wilmington*; H. C. Conrad (*Sec. and Treas.*), *Wilmington*; Walter Morris, *Dover*; G. W. Marshall, *Milford*; Ebe W. Tunnell, *Lewes*; H. P. Cannon, *Bridgetown*; W. C. Jason (*ex officio*), *Dover.*

## COURSES OF STUDY.

The following four-year courses, leading to the degrees of B. S., B. Agr., and B. E., respectively, are offered: Scientific, agricultural, and engineering. There is also a three-year normal course.

## BOARD OF INSTRUCTION.

Rev. William C. Jason, A. M., D. D., <i>President; Latin, Psychology, Civics.</i>	
Samuel L. Cornwell, A. M., <i>Ancient and Mod. Hist., Bot.; Sec.</i>	Cecil Elsie Parker, B. S., <i>Arith., Grammar, Engl. Composition, Libr.</i>
Lydia P. Laws, <i>Engl. Lit., U. S. Hist., Dom. Sci.</i>	Everett L. Brown, <i>Instr. Woodwork, Mech. Draw., Geog., Spelling.</i>
T. W. Gordy, <i>Phys., Chem., Physiol.</i>	Winfield Deputy, <i>Instr. Pract. Agr.</i>
J. R. Gogbill, <i>Supt. Indus. Dept.; Math.</i>	



## FLORIDA.

University of the State of Florida, Gainesville.

## GOVERNING BOARD.

Board of Control: N. P. Bryan\* (*Chair.*), Jacksonville; P. K. Yonge,\* Pensacola; E. L. Wartmann, Citra; T. B. King,\* Arcadia; J. C. Baisden,\* Live Oak; J. G. Kellum (*Sec.*), Tallahassee.

## COURSES OF STUDY.

The work of the university is divided into five departments or schools, offering the following four-year courses: Literary (B. A.), general science (B. S.), agricultural (B. S. in Agr.), three in engineering (B. S. in M. E., B. S. in E. E., and B. S. in C. E.), and pedagogical (B. A. in Ped.). Two-year courses in agriculture and in mechanic arts, leading to certificates, one year preparatory, and a six weeks' summer school for teachers are also offered.

## BOARD OF INSTRUCTION.

Andrew Sledd, PH. D., LL. D., *President of the University; Acting Professor of Philosophy.*

James M. Farr, A. M., PH. D., *V. Pres.; Engl.*

W. F. Yocum, A. M., D. D., *Ed.*

Edward R. Flint, B. S., PH. D., M. D., *Chem.*

H. G. Keppel, PH. D., *Math.*

H. S. Davis, PH. D., *Zool., Geol.*

John J. Vernon, M. S. A., *Agr. Hort.*

James N. Anderson, M. A., PH. D., *Lat., Greek.*

Enoch M. Banks, PH. D., *Hist., Econ.*

C. L. Crow, M. A., PH. D., *Mod. Lang.*

E. S. Walker, Major, U. S. A., (*Retired*), *Comdt.; Mil. Sci.*

N. H. Cox, B. S., *Civil Engin.*

Geo. M. Lynch, A. B., *Secondary Ed.*

W. L. Floyd, M. S., *Bot., Phys.*

A. G. Colclough, *Foreman Univ. Farm.*

K. H. Graham, *Auditor, Bookkeeper.*

M. B. Hadley, *Libr.*

**Agricultural Experiment Station of Florida, Gainesville.**

Department of the University of the State of Florida, under the control of the Board of Control.

## STATION STAFF.

P. H. Rolfs, M. S., *Dir.; in charge of Farmers' Insts.*

A. W. Blair, A. M., *Chem.*

John M. Scott, B. S., *Animal Indus.*

E. W. Berger, PH. D., *Ent.*

H. S. Fawcett, B. S., *Plant Path.*

B. F. Floyd, A. M., *Asst. Plant Physiol.*

R. N. Wilson, A. B., *Asst. Chem.*

R. Y. Winters, B. S., *Asst. Bot.*

John Belling, B. S., *Asst. Hort.*

Thos. Hamilton, B. S., *Asst. Plant Path.*

E. P. Greene, B. S., *Asst. Ent.*

M. Crews, *Farm Foreman.*

Alfred Dickinson, *Gard.*

K. H. Graham, *Auditor, Bookkeeper.*

Mrs. E. W. Berger, *Libr.*

**Florida State Normal and Industrial School, Tallahassee.**

## GOVERNING BOARDS.

State Board of Education: Gov. Napoleon B. Broward (*Pres.*), Tallahassee; W. M. Holloway (*Sec.*), Tallahassee; H. C. Crawford, Tallahassee; W. V. Knott (*Treas.*), Tallahassee; W. H. Ellis, Tallahassee.



Board of Control: N. P. Bryan (*Chair.*), *Jacksonville*; P. K. Yonge, *Pensacola*; E. L. Wartmann, *Citra*; T. B. King, *Arcadia*; J. C. Baisden, *Live Oak*; J. G. Kellum (*Sec.*), *Tallahassee*.

## COURSES OF STUDY.

The courses of study are: Four-year scientific (B. S.), normal (two years), high school and grammar school (three years each), with industrial training through all courses.

## BOARD OF INSTRUCTION.

Nathan B. Young, M. A., *President*.

Geo. M. Sampson, M. A., *Sec.*; *Math.*  
Evalina A. Davis, *Cooking.*  
C. A. Cole, *Freehand and Mech. Draw.*  
Everett B. Jones, B. S., *Sci.*  
F. H. Cardozo, *Dir. Agr. Dept.*  
W. H. Crutcher, *Farm Supt.*; *Pract. Agr.*  
D. A. Starks, *Animal Husb.*  
Miss J. V. Hilyer, *Matron*; *Nurse Training.*

Daisy E. Attaway, *Geog., Engl., Arith.*  
Mary E. Melvin, *Preceptress, Engl. Hist.*  
Hattie E. Newbern, B. PED., *Engl., Plain Sew.*  
Ellen O. Paige, *Dressmaking.*  
Eliza J. Powell, *Arith., Geog., Engl.*  
Mrs. Eliza A. Johnson, *Millinery.*  
I. L. Brown, *Asst. Comdt.*

## GEORGIA.

Georgia State College of Agriculture, University of Georgia, *Athens*.

Trustees: J. J. Conner (*Pres.*), *Cartersville*; J. W. Bennett, *Waycross*; J. T. Newton, *Madison*; D. M. Hughes, *Danville*; L. G. Hardman,\* *Commerce*; T. G. Hudson,\* *Atlanta*; R. C. Neely,\* *Waynesboro*; J. L. Hand, *Pelham*; L. H. O. Martin, *Middleton*; A. J. McMullan, *Hartwell*; J. A. Trash, *Greenville*; A. L. Hull (*Sec. and Treas.*), *Athens*.

## COURSES OF STUDY.

Four courses in agriculture are offered, viz, a four-year course leading to the degree of B. S., one-year course, three months' course, and a ten days' cotton school.

## BOARD OF INSTRUCTION.

David C. Barrow, C. and M. E., *Chancellor of the University*.

Andrew M. Soule, B. S. A., *Pres. of the College*; *Dir. State Farmers' Insts.*  
H. C. White, PH. D., D. C. L., LL. D., *Chem.*  
L. L. Hendren, PH. D., *Phys., Astron.*  
John Morris, A. M., *German, Engl.*  
Wm. D. Hooper, A. M., *Lat.*  
Robt. E. Park, A. M., *Engl.*  
Chas. M. Strahan, C. and M. E., *Civil Engin.*  
John P. Campbell, PH. D., *Biol.*  
J. H. T. McPherson, PH. D., *Hist., Polit. Sci.*

Chas. M. Snelling, A. M., *Math.*  
John R. Fain, B. S., *Expt. Agron.*  
J. M. Reade, B. S. A., PH. D., *Bot.*  
Milton P. Jarnagin, B. S. A., (*Adjunct*) *Animal Husb.*  
R. P. Stephens, A. B., PH. D., (*Adjunct*) *Math.*  
H. V. Black, PH. D., (*Adjunct*) *Chem.*  
Ernest L. Griggs, (*Adjunct*) *Civil Engin.*  
Steadman V. Sanford, A. B., (*Junior*) *Engl.*  
R. J. H. De Loach, A. M., *Cotton Industry.*

J. S. Stewart, A. M., *Secondary Ed.*  
 Joseph Lustrat, M. A., *Romance Lang.*  
 Thomas J. Woofter, A. M., PH. D.,  
*Philos., Ed.*  
 Thos. H. McHatton, D. Sc., (*Adjunct*)  
*Hort.*  
 Alfred Akerman, A. B., M. F., *For.*  
 Wm. O. Payne, M. A., *Instr. Hist.,*  
*Polit. Sci.*  
 T. Fort, A. B., *Instr. Math.*  
 R. L. McWhorter, A. M., *Instr. Lat.*

Leroy C. Hart, B. S., E. E., *Farm*  
*Mech.*  
 M. D. Du Bose, A. M., *Instr. Engl.,*  
*German.*  
 S. M. Salyer, A. B., *Instr. Engl.*  
 Robert P. Brooks, B. A., (*Adjunct*)  
*Georgia Hist.*  
 P. O. Vanatter, Supt. *Field Demonstra-*  
*tions.*  
 J. H. Burnett, *Libr.*  
 James M. Kimbrough, 1st Lieut., U. S.  
 A., *Comdt.*

### Georgia Experiment Station, *Experiment.<sup>a</sup>*

Department of Georgia State College of Agriculture and Mechanic Arts.

#### GOVERNING BOARD.

Board of Directors: Thomas G. Hudson (*Pres.*), *Atlanta*; J. B. Park (*Sec. and Treas.*), *Greensboro*; David C. Barrow, *Athens*; A. M. Soule, *Athens*; R. C. Neely, *Waynesboro*; R. F. Crittenden, *Shellman*; J. T. Ferguson, *De Soto*; J. H. Mobley, *Hamilton*; E. L. Peek, *Conyers*; N. B. Drewry, *Griffin*; Felix Corput, *Cave Spring*; L. G. Hardman, *Commerce*; George Gilmore, *Warthen*; William Henderson, *Ocilla*.

#### STATION STAFF.

Martin V. Calvin, *Dir.*  
 J. M. Kimbrough, *Asst. Dir.; Agr.*  
 H. C. White, PH. D., D. C. L., LL. D.,  
*V. Dir.; Chem.*  
 C. L. Willoughby, B. Agr., *Dairy and*  
*Animal Path.*

Paul N. Flint, M. S., *Animal Husb.*  
 H. P. Stuckey, B. S. A., *Hort.*  
 C. A. McLendon, B. S., *Bot., Plant Path.*  
 J. C. Temple, B. Agr., *Bact.*  
 J. C. McClain, B. S., *Dairy Ext. Work.*  
 J. E. Dorman, *Dairy Field Agt.*

### Georgia State Industrial College, University of Georgia, *Savannah*.

#### GOVERNING BOARD.

Board of Commissioners: P. W. Meldrim (*Chair.*), *Savannah*; W. R. Hammond, *Atlanta*; P. J. Cline, *Milledgeville*; Otis Ashmore, *Savannah*; Geo. T. Murrell, *Athens*; D. C. Barrow (*Chancellor Univ. of Georgia, ex officio*), *Athens*; J. F. Brooks (*Treas.*), *Savannah*.

#### COURSES OF STUDY.

The courses offered are industrial, preparatory, normal, and collegiate. Practical agriculture is made one of the industrial features of the college courses. A special dairy course covering two months is offered during the winter.

#### BOARD OF INSTRUCTION.

David C. Barrow, C. and M. E., *Chancellor of the University.*

R. R. Wright, A. M., LL. D., *Pres. of*  
*the College; Instr. Engl. and Mental*  
*and Moral Sci.*  
 D. C. Suggs, A. M., *V. Pres.; Instr. Nat.*  
*Sci.*  
 J. G. Lemon, A. M., *Instr. Math.*

S. A. Grant, A. B., *Instr. Engl., Pedag.*  
 Henry Pearson, A. M., *Asst. Instr.*  
*Engl.; Sec. of Faculty.*  
 L. B. Thompson, A. B., *Supt. Mech.*  
*Dept.; Asst. Instr. Math., Masonry,*  
*Plastering.*

<sup>a</sup> Telegraph, freight, and express address, *Griffin*.

W. C. McLester, *Foreman of Farm.*  
 J. M. Roston, *Wheelwr.; Proctor.*  
 Mrs. W. C. McLester, *Sew.*  
 J. H. Hazel, *Painting, Glazing, Sign*  
*Writing, Calcimining.*  
 R. M. Cooper, *Tailoring.*

Mrs. D. E. Pearson, *Prin. of Model*  
*School.*  
 E. F. Golden, *Shoe and Harness Making.*  
 J. W. Warren, *Blacksm.*  
 E. M. Wilson, *Carpentry, Mech. Draw.*

## GUAM.

### Guam Agricultural Experiment Station.<sup>a</sup>

Under the supervision of A. C. True, Director Office of Experiment Stations,  
 United States Department of Agriculture.

#### STATION STAFF.

H. L. V. Costenoble, *Special Agent in Charge.*

## HAWAII.

### College of Hawaii, Honolulu.

#### GOVERNING BOARD.

H. E. Cooper, A. Gartley, Marston Campbell, Walter G. Smith, Ralph S.  
 Hosmer.

#### COURSES OF STUDY.

The college offers four courses leading to the degree of B. S., as follows:  
 Scientific, agricultural, household economics, and engineering. In addition,  
 courses for special students are provided.

#### BOARD OF INSTRUCTION.

John W. Gilmore, M. S. A., *President; Agronomy.*

W. T. Pope, B. S., *Bot., Hort.; in*  
*charge of Farmers' Insts.*  
 J. S. Donaghho, B. A., *Math.*  
 John M. Young, M. M. E., *Mech. Engin.*  
 Herman Babson, Ph. D., *German. Engl.*  
 Jerome J. Morgan, B. S., *Chem.*

B. E. Porter, B. S. A., *Animal Husb.*  
 Agnes Hunt, B. S., *Domestic Econ.*  
 Minnie E. Chipman, *Ceramics.*  
 Warren G. Ross, B. S. Agr., *Agron.*  
 Raymond C. Severance, B. S., *Phys.*  
 M. Armidis, *French.*

### Hawaii Agricultural Experiment Station, Honolulu.

Under the supervision of A. C. True, Director Office of Experiment Stations,  
 United States Department of Agriculture.

#### STATION STAFF.

E. V. Wilcox, Ph. D., *Special Agent in*  
*Charge.*  
 D. L. Van Dine, B. S. A., *Ent.*  
 D. T. Fullaway, A. B., *Asst. Ent.*  
 W. P. Kelley, M. S., *Chem.*

Alice R. Thompson, B. S. *Asst. Chem.*  
 J. Edgar Higgins, B. A., M. S. A., *Hort.*  
 C. J. Hunn, B. S. A., *Asst. Hort.*  
 F. G. Krauss, *in charge of Rice Invest.*  
 Q. Q. Bradford, *Asst. in Rubber Invest.*

<sup>a</sup>Address: Island of Guam, via San Francisco.

Hawaiian Sugar Planters' Experiment Station, *Honolulu.*

## GOVERNING BOARD.

Trustees of Hawaiian Sugar Planters' Association: F. A. Schaefer (*Pres.*), S. M. Damon, (*V. Pres.*), W. O. Smith (*Sec. and Treas.*), G. H. Robertson (*Auditor*), E. D. Tenney, W. Pfotenhauer, Wm. G. Irwin, H. P. Baldwin, E. F. Bishop, and F. M. Swanzy.

Experiment Station Committee: J. P. Cooke (*Chair.*), G. H. Robertson, W. Pfotenhauer, G. F. Davies, W. M. Giffard, J. W. Waldron, R. D. Mead.

## STATION STAFF.

C. F. Eckart, <sup>a</sup> M. S., <i>Dir. Div. of Agr. and Chem.</i>	F. T. Dillingham, B. S., <i>Asst. Chem.</i>
R. C. L. Perkins, B. A., Sc. D., <i>Dir. Div. of Ent.</i>	E. G. Clarke, <i>Agr.</i>
L. Lewton-Brain, B. A., <i>Dir. Div. of Path. and Physiol.</i>	T. Lougher, <i>Field Foreman.</i>
Noel Deerr, <i>Actg. Dir. Div. of Agr. and Chem.</i>	J. H. Wale, <i>Substa. Asst.</i>
Samuel S. Peck, B. S., Ph. G., <i>1st Asst. Chem.</i>	A. Koebele, <i>Consulting Ent.</i>
R. S. Norris, Ph. D., <i>Asst. Chem.</i>	George W. Kirkaldy, <i>Asst. Ent.</i>
F. R. Werthmueller, B. S., <i>Asst. Chem.</i>	Frank W. Terry, <i>Asst. Ent.</i>
Arthur E. Jordan, <i>Asst. Chem.</i>	O. H. Swezey, B. A., M. S., <i>Asst. Ent.</i>
	F. Muir, <i>Asst. Ent.</i>
	Harold L. Lyon, Ph. D., <i>Asst. Path.</i>
	L. D. Larsen, <i>Asst. Path.</i>
	W. R. Potter, <i>Illustrator for Station Publications.</i>

## IDAHO.

College of Agriculture of the University of Idaho, *Moscow.*

## GOVERNING BOARD.

Board of Regents: Maris E. Lewis (*Pres.*), *Moscow*; Edward S. Sweet (*V. Pres.*), *Grangeville*; Mrs. Samuel H. Hays (*Sec.*), *Boise*; O. E. McCutcheon, *Idaho Falls*; E. H. Moffit, *Wallace*.

## COURSES OF STUDY.

The regular course in agriculture requires four years for its completion and leads to the degree of B. S. A four-year course in agriculture and horticulture, a three-year preparatory course, a short course in dairying, one-year course for special students, and a special winter course of from four to six weeks in farm dairying and horticulture are offered.

## BOARD OF INSTRUCTION.

James A. MacLean, Ph. D., LL. D., *President of the University; Political Science.*

Edwin E. Elliott, M. S., <i>Dean; Agr. Ed.</i>	John M. Aldrich, Ph. D., <i>Biol.</i>
Hiram T. French, M. S., <i>Animal Husb.; in charge of Farmers' Insts.</i>	J. Shirley Jones, B. S., <i>Agr. Chem.</i>
	Ralph E. Hyslop, M. S. A., <i>Agron.</i>

<sup>a</sup> On leave.

Elias Nelson, M. A., *Irrig.*  
 J. R. Shinn, B. S., *Hort.*  
 J. H. Frandson, M. S. A., *Dairying.*  
 Jay G. Eldridge, PH. D., *German.*  
 Carl Von Ende, PH. D., *Chem.*  
 Edward M. Hulme, A. M., *Hist.*  
 Sidney R. Sheldon, B. S., E. E., *Mech.*  
     *and Elect. Engin.*  
 Charles N. Little, PH. D., *Civil Engin.*  
 Wm. S. Morley, A. M., Sc. D., *Math.*  
 Henrietta E. Moore, PH. D., *Engl. Lit.*  
 Lawrence E. Gurney, PH. D., *Phys.*  
 H. L. Axtell, PH. D., *Classics.*  
 Arthur C. Terrill, E. M., *Min. Engin.*

W. R. Chedsey, E. M., *Metal.*  
 Ph. Soulen, A. M., *Ed.*  
 L. P. Shanks, PH. D., *Romance Lang.*  
 Miss B. S. Maynard, *Instr. Dom. Sci.*  
 Mrs. Jennie L. K. Haner, *Instr. Dom.*  
     *Art.*  
 Andrew W. Smith, Lieut., U. S. A.,  
     *Mil. Sci. and Tactics; Comdt. of*  
     *Cadets.*  
 Agatha J. Sonna, A. M., *Instr. Engl.*  
     *Lang.*  
 Belle Sweet, B. L. S., *Libr.*  
 Eber D. Kanaga, M. D., *Phys. Ed.*  
 Miss Permeal French, *Dean of Women.*

### Agricultural Experiment Station of the University of Idaho, Moscow.

Department of the University of Idaho, under the control of the Board of Regents.

#### STATION STAFF.

Hiram T. French, M. S., *Dir.; Agr.*  
 Louis F. Henderson, PH. B., *Econ.*  
     *Ent., Plant Path.*  
 J. R. Shinn, B. S., *Hort.*  
 J. Shirley Jones, B. S., *Chem.*  
 R. E. Hyslop, M. S. Agr., *Agron.*

Elias Nelson, M. A., *Irrig.*  
 J. H. Frandson, M. S. A., *Dairyman.*  
 H. P. Fishburn, M. A., *Asst. Chem.*  
 Wm. L. Payne, *Treas.*  
 Prentice Moore, *Farm Foreman.*

### ILLINOIS.

#### College of Agriculture of the University of Illinois, Urbana.

#### GOVERNING BOARD.

Board of Trustees of the University: Gov. Chas. S. Deneen (*ex officio*), *Springfield*; G. H. Madden (*Pres. State Bd. of Agr., ex officio*), *Mendota*; F. G. Blair (*State Supt. of Public Instr., ex officio*), *Springfield*; Mrs. Carrie T. Alexander, *Belleville*; Lewis L. Lehman, *Mattoon*; Laura B. Evans, *Taylorville*; William L. Abbott (*Pres.*), *139 Adams street, Chicago*; Charles Davison, *1010, 103 State street, Chicago*; Mrs. Mary E. Busey, *Urbana*; F. L. Hatch, *Spring Grove*; William L. Pillsbury (*Sec.*), *Urbana*; H. A. Haugan (*Treas.*), *State Bank of Chicago, Chicago*; S. W. Shattuck (*Comptroller*), *Champaign*; Eugene Funk, *Bloomington*.

#### COURSES OF STUDY.

Three four-year courses, leading to the degree of B. S., viz: Agriculture, household science, and landscape gardening, and six weeks' summer courses in secondary and elementary agriculture for rural teachers, are offered. Provision is also made for special students.



## BOARD OF INSTRUCTION.

Edmund J. James, PH. D., LL. D., *President of the University.*

- Eugene Davenport, M. AGR., LL. D.,  
*Dean; Thremmatology.*
- Thomas J. Burrill, PH. D., LL. D., V.  
*Pres.; Bot.*
- Stephen A. Forbes, PH. D., *Zool.*
- Charles W. Rolfe, M. S., *Geol.*
- Donald McIntosh, V. S., *Vet. Sci.*
- Samuel W. Parr, M. S., *Applied Chem.*
- Daniel K. Dodge, PH. D., *Engl., Lit.*
- David Kinley, PH. D., *Econ.*
- Albert P. Carman, Sc. D., *Phys.*
- Evarts B. Greene, PH. D., *Hist.*
- Geo. A. Huff, *Dir. Phys. Training.*
- Geo. H. Meyer, M. A., (Asst.) *German.*
- Thomas A. Clark, B. L., *Rhet.*
- Thomas E. Oliver, PH. D., *Romance*  
*Lang.*
- Isabel Bevier, PH. M., *Household Sci.*
- Cyril G. Hopkins, PH. D., *Agron.*
- Edmond G. Fehét, Lieut. Col., U. S. A.  
(Retired), *Mil. Sci.*
- Herbert W. Mumford, B. S., *Animal*  
*Husb.*
- Harry S. Grindley, Sc. D., *Chief in*  
*Animal Chem.*
- Philip B. Hawk, PH. D., *Physiol. Chem.*
- Chas. F. Hottes, PH. D., (Asst.) *Bot.*
- Frank Smith, PH. B., (Assoc.) *Zool.*
- Joseph C. Blair, M. S. A., *Pomol.*
- Wilber J. Fraser, M. S., *Dairy Husb.*
- Neil C. Brooks,<sup>a</sup> PH. D., (Asst.) *Ger-*  
*man.*
- Martha J. Kyle, M. A., *Instr. Engl.*
- John W. Lloyd, M. S. A., (Asst.) *Oleri-*  
*culture.*
- Louie H. Smith, PH. D., (Asst.) *Plant*  
*Breeding.*
- Amos W. Peters, PH. D., (Assoc.) *Zool.*
- Justus W. Folsom, Sc. D., *Instr. Ent.*
- Daisy L. Blaisdell, A. M., *Instr. Ger-*  
*man.*
- Walter C. Coffey, B. S., *Assoc. in Sheep*  
*Husb.*
- Daniel O. Barto, A. B., B. S., *Instr.*  
*Agr. for Secondary Schools.*
- Chas. S. Crandall, M. S., (Asst.) *Pomol.*
- J. G. Mosier, B. S., (Asst.) *Soil Phys.*
- Jas. H. Pettit,<sup>a</sup> PH. B., (Asst.) *Soil*  
*Fertility.*
- Wm. Dietrich, M. S., (Asst.) *Swine*  
*Husb.*
- Louis D. Hall, M. S., *Assoc. in Animal*  
*Husb.*
- Cassius C. Hayden, B. S. A., *Assoc. in*  
*Dairy Husb.*
- Rufus C. Obrecht, B. S. A., M. S.,  
*Assoc. in Horse Husb.*
- Frank W. Scott, A. M., (Assoc.) *Engl.*
- Earl A. White, B. S., *Instr. Farm.*  
*Mech.*
- Herman B. Dorner, M. S., *Instr. Flor.*
- Albert N. Hume,<sup>a</sup> M. S., *Assoc. in Crop*  
*Production.*
- O. D. Center, B. S., *Instr. Crop Pro-*  
*duction.*
- William G. Eckhardt, B. S., *Asst. in*  
*Soil Fertility.*
- Chas. F. Briscoe, A. M., *Instr. Bot.*
- Fred. H. Rankin, *Supt. Agr. College*  
*Ext.*
- Susannah Usher, S. B., (Asst.) *House-*  
*hold Sci.*
- Anna Van Meter, M. S., (Asst.) *House-*  
*hold Sci.*
- Carl E. Lee, B. S., (Asst.) *Dairy Man-*  
*ufactures.*
- A. Phelps Wyman, B. S. AGR., (Asst.)  
*Landscape Gard.*
- H. F. Major, B. S., *Asst. in Landscape*  
*Gard.*
- Charlotte M. Gibbs, A. B., *Asst. in Tex-*  
*tiles.*
- Leonard Hegnauer, A. B., B. S. AGR.,  
*Asst. in Crop Production.*
- Harry O. Allison, B. S., *Instr. Animal*  
*Husb.*
- A. F. Gustafson, B. S., *Asst. in Soil*  
*Phys.*
- Nelson W. Hepburn, B. S., *Asst. in*  
*Dairy Manufactures.*
- Helena M. Pincomb, B. S., *Asst. in*  
*Household Sci.*
- Nellie E. Goldthwaite, PH. D., *Re-*  
*sarch Asst. in Household Sci.*
- Arthur Lumbrick, B. S., *Asst. in Crop*  
*Production.*
- G. G. Coale, B. S., *Asst. in Animal Husb.*
- Catherine M. McIntire, *Sec.*

<sup>a</sup> On leave.

**Agricultural Experiment Station of the University of Illinois, Urbana.**

Department of the University of Illinois, under the control of the Board of Trustees.

STATION STAFF.

Eugene Davenport, M. Agr., LL. D., <i>Dir.</i>	William Dietrich, M. S. A., <i>Asst. Chief in Swine Husb.</i>
C. G. Hopkins, PH. D., <i>V. Dir.; Chief in Agron.</i>	L. D. Hall, M. S., <i>Asst. Chief in Ani- mal Husb.</i>
L. H. Smith, PH. D., <i>Asst. Chief in Chem. and Plant Breeding.</i>	R. C. Obrecht, M. S., <i>Assoc. in Horse Husb.</i>
J. G. Mosier, B. S., <i>Asst. Chief in Soil Phys.</i>	W. C. Coffey, B. S., <i>Assoc. in Sheep Husb.</i>
A. F. Gustafson, B. S., <i>Asst. in Soil Phys.</i>	H. O. Allison, B. S., <i>Asst. in Animal Husb.</i>
J. H. Pettit, <sup>a</sup> PH. B., <i>Asst. Chief in Soil Fertility.</i>	Donald McIntosh, V. S., <i>Consulting Vet.</i>
W. G. Eckhardt, B. S., <i>Asst. in Soil Fertility.</i>	W. J. Fraser, M. S., <i>Chief in Dairy Husb.</i>
A. N. Hume, <sup>a</sup> M. S., <i>Asst. Chief in Crop Production.</i>	C. E. Lee, B. S., <i>Asst. Chief in Dairy Manufactures.</i>
O. D. Center, B. S., <i>First Asst. in Crop Production.</i>	N. W. Hepburn, B. S., <i>Asst. in Dairy Manufactures.</i>
Leonard Hegnauer, A. B., B. S. Agr., <i>Asst. in Crop Production.</i>	C. C. Hayden, B. S. A., <i>Assoc. in Dairy Husb.</i>
J. E. Readhimer, B. S., <i>Supt. of Soil Expt. Fields.</i>	C. B. Coleman, B. S., <i>First Asst. in Dairy Husb.</i>
J. P. Aumer, B. S., <i>Asst. in Chem.</i>	Jesse M. Barnhart, B. S., <i>Asst. Chem. in Dairy Husb.</i>
Arthur Lumbrick, B. S., <i>Asst. in Crop Production.</i>	R. E. Brand, <i>Asst. in Dairy Husb.</i>
O. S. Fisher, B. S., <i>Asst. in Soil Fertil- ity.</i>	J. C. Blair, M. S. A., <i>Chief in Hort.</i>
C. C. Logan, B. S., <i>Asst. in Soil Physics.</i>	O. S. Watkins, B. S., <i>Asst. Chem. in Hort.</i>
J. B. Park, A. B., <i>Asst. in Chem.</i>	C. S. Crandall, M. S., <i>Chief in Plant Breeding.</i>
H. S. Grindley, Sc. D., <i>Chief in Animal Chem.</i>	John W. Lloyd, M. S. A., <i>Asst. Chief in Olericulture.</i>
Philip B. Hawk, PH. D., <i>Asst. Chief in Physiol. Chem.</i>	R. B. Howe, B. S., <i>Field Asst. in Pomol.</i>
F. W. Gill, B. S., <i>First Analyst in Phy- siol. Chem.</i>	I. S. Brooks, B. S., <i>Asst. in Pomol.</i>
Arthur D. Emmett, B. S., M. A., <i>Assoc. in Animal Nutrition.</i>	T. J. Burrill, PH. D., LL. D., <i>Bot.</i>
Ernest Van Alstine, B. S., <i>Asst. in Chem.</i>	H. B. Dornier, M. S., <i>Asst. in Flor.</i>
Clyde H. Myers, B. S., <i>Asst. in Chem.</i>	W. J. MacNeal, PH. D., M. D., <i>Asst. Chief in Bact.</i>
H. W. Mumford, B. S., <i>Chief in Animal Husb.</i>	C. F. Briscoe, A. M., <i>Asst. in Bact.</i>
	Henry L. Rietz, PH. D., <i>Statistician.</i>

<sup>a</sup> On leave.

## INDIANA.

## School of Agriculture of Purdue University, Lafayette.

## GOVERNING BOARD.

Board of Trustees: Addison C. Harris (*Pres.*), *Indianapolis*; E. A. Ellsworth (*Sec.*), *Lafayette*; J. M. Fowler (*Treas.*), *Lafayette*; David E. Beem (*V. Pres.*), *Spencer*; Charles Downing, *Greenfield*; Sylvester Johnson, *Irrington*; Chas. Major, *Shelbyville*; J. D. Oliver, *South Bend*; Henry A. Miller, *Montmorenci*; G. A. Jamison, *Lafayette*; A. A. Adams, *Columbia City*.

## COURSES OF STUDY.

The course of study requires four years for completion and leads to the degree of B. S. in agriculture. There are also short winter courses in agriculture and horticulture, dairying, animal husbandry, and household economics.

BOARD OF INSTRUCTION.<sup>a</sup>

Winthrop Ellsworth Stone, PH. D., LL. D., *President of the University*.

John H. Skinner, B. S., *Dean; Animal Husbandry*.

William C. Latta, M. S., *Agr.; Supt. of Farmers' Insts.*

James Troop, M. S., *Hort., Ent.*

Robert A. Craig, D. V. M., *Vet. Sci.*

Albert T. Wiancko, B. S. A., *Agron.*

Otto F. Hunziker, M. S. A., *Dairy Husb.*

Stanley Coulter, PH. D., LL. D., *Biol.*

Joseph C. Arthur, D. Sc., *Veg. Physiol. and Path.*

Percy N. Evans, PH. D., *Chem.*

Ervin S. Ferry, B. S., *Phys.*

Emma M. McRae, M. A., *Engl. Lit.*

Thos. F. Moran, PH. D., *Hist., Polit. Econ.*

Ernst J. Fluegel, PH. D., *German.*

Pauline Mariotte-Davies, PH. D., *French.*

George L. Roberts, A. B., *Indus. Ed.*

Wm. J. Lutz, M. S., Capt., U. S. A., *Mil. Sci. and Tactics.*

James H. Ransom, PH. D., *Gen. Chem.*

Mrs. Henrietta W. Calvin, B. S., *Household Econ.*

Alpha P. Jamison, M. E., *Mech. Draw.*

George I. Christie, B. S. A., *Agr. Ext.*

Severance Burrage, S. B., (*Assoc.*) *Sanitary Sci.*

Carolyn E. Shoemaker, M. S., (*Assoc.*) *Engl.*

E. G. Mahlin, PH. D., (*Assoc.*) *Chem.*

W. McE. Nye, B. S., (*Asst.*) *Farm Mech.*

Wm. W. Smith, B. S. A., (*Asst.*) *Animal Husb.*

Martin L. Fisher, B. S., (*Asst.*) *Agron.*

Charles M. Smith, B. S., (*Asst.*) *Phys.*

Ralph B. Trueblood, B. S., (*Asst.*) *Pract. Mech.*

A. R. Middleton, PH. D., (*Asst.*) *Chem.*

Howard E. Enders, PH. D., *Instr. Zool.*

Oliver P. Terry, M. S., M. D., *Instr. Physiol.*

Edward H. Davis, S. B., *Instr. Econ. and Hist.*

John Heiss, A. M., *Instr. German.*

S. D. Conner, M. S., *Instr. Agr. Chem.*

J. D. Jarvis, B. S. A., *Instr. Dairying.*

Clare N. Arnett, B. S., *Instr. Animal Husb.*

Otis Crane, *Instr. Poultry Husb.*

Horace C. Mills, B. S., *Asst. in Dairying.*

Jesse G. Boyle, B. S., *Asst. in Hort.*

Wm. M. Hepburn, A. M., *Libr.*

<sup>a</sup> This list does not include the instructors exclusively engaged in the schools of engineering, science, and pharmacy.

Agricultural Experiment Station of Indiana, *Lafayette*.

Department of Purdue University, under the control of the Board of Trustees.

## STATION STAFF.

Arthur Goss, M. S., A. C., <i>Dir.</i> ; <i>Chem.</i>	W. F. Fisher, <i>Insp.</i> ( <i>Fert. and Feed. Stuff Control</i> ).
James Troop, M. S., <i>Hort., Ent.</i>	A. C. S. Summers, B. S., <i>Asst. Chem.</i> ( <i>Feed. Stuff Control</i> ).
J. C. Arthur, D. Sc., <i>Bot.</i>	Carleton Cutler, B. S., <i>Asst. Chem.</i> ( <i>Feed. Stuff Control</i> ).
J. H. Skinner, B. S., <i>Animal Husb.</i>	J. B. Abbott, B. S., <i>Asst. in Soil Improvement</i> .
A. T. Wiancko, B. S. A., <i>Agr.</i>	F. D. Kern, M. S., <i>Asst. Bot.</i>
R. A. Craig, D. V. M., <i>Vet.</i>	W. A. Cochel, B. S., <i>Assoc. Animal Husb.</i>
O. F. Hunziker, M. S. A., <i>Dairy Husb.</i>	C. G. Woodbury, M. S., <i>Assoc. Hort.</i>
G. W. Spitzer, Ph. G., <i>Dairy Chem.</i>	H. H. Madaus, B. S., <i>Asst. in Vet. Lab.</i>
G. I. Christie, B. S. A., <i>Supt. Agr. Ext.</i>	A. G. Johnson, B. S., <i>Asst. Bot.</i>
M. L. Fisher, B. S., <i>Asst. Agr.</i>	H. C. Mills, B. S., <i>Asst. in Dairying</i> .
C. O. Cromer, B. S., <i>Asst. Agr.</i>	Harry Davis, <i>Working Foreman in Agr.</i>
W. J. Jones, jr., M. S., A. C., <i>State Chem.</i> ( <i>Fert. and Feed. Stuff Control</i> ).	W. P. Lane, <i>Working Foreman in Hort.</i>
S. D. Conner, M. S., <i>Assoc. Chem.</i>	Nellie Tracy, <i>Clerk and Libr.</i>
O. C. Haworth, B. S., <i>Chief Deputy State Chem.</i>	John Wagner, <i>Helper</i> ( <i>Fert. and Feed. Stuff Control</i> ).
E. G. Proulx, B. S., <i>Asst. Chem.</i> ( <i>Fert. Control</i> ).	Henry Wagner, <i>Helper</i> ( <i>Feed. Stuff Control</i> ).
O. S. Roberts, B. S., <i>Insp.</i> ( <i>Fert. and Feed. Stuff Control</i> ).	

## IOWA.

Iowa State College of Agriculture and Mechanic Arts, *Ames*.

## GOVERNING BOARD.

Board of Trustees: Gov. A. B. Cummins (*ex officio*), *Des Moines*; J. F. Riggs (*Supt. of Public Inst. ex officio*), *Des Moines*; W. O. McElroy, *Newton*; W. A. Helsell (*Financial Sec.*), *Odebolt*; Herman Knapp (*Treas.*), *Ames*; Chas. R. Brenton, *Dallas Center*; E. W. Stanton (*Sec.*), *Ames*; Ellison J. Orr, *Waukon*; J. B. Hungerford (*Chair.*), *Carroll*; W. R. Moninger, *Marshalltown*; Jas. H. Wilson, *Adair*; H. M. Letts, *Columbus Junction*; Vincent Zmunt, *Iowa City*; W. J. Dixon, *Sac City*; G. S. Allyn, *Mount Ayr*; Ben Edwards (*Custodian*), *Ames*; J. S. Jones, *Manchester*.

## COURSES OF STUDY.

The courses of study are fourteen, requiring four years for completion. The five courses in agriculture (agronomy, dairying, animal husbandry, horticulture and forestry, and science and agriculture) lead to the degree of B. S. A.; the course in veterinary science, to the degree of D. V. M.; the course in mechanical engineering, to the degree of B. M. E.; the course in civil engineering, to the degree of B. C. E.; the course in electrical engineering, to the degree of B. S. in E. E.; the course in mining engineering, to the degree of B. S. in Min. E.; the course in ceramics, to the degree of B. E. M. in Cer.; the course in science as related to the industries, to the degree of B. S., and the course in domestic science for women, to the degree of B. D. S. A one-year graduate course in



agricultural engineering leads to the degree of B. A. E. There are also two-year courses in mining and clay working, a one-year course in dairying, one-year preparatory course, short winter courses in stock, corn, and grain judging, dairying, horticulture and forestry, and domestic science, and a course in agricultural journalism.

## BOARD OF INSTRUCTION.

Rev. Albert Boynton Storms, A. M., D. D., LL. D., *President; Dean of the Division of Science.*

Edgar W. Stanton, M. S., LL. D., *Dean of the Junior College; Math.*

Charles F. Curtiss, M. S. A., D. Sc., *Dean Div. Agr.*

Hon. James Wilson, M. S. A., *Lect. in Agr.*

Gen. James R. Lincoln, *Mil. Sci.*

Alfred A. Bennett, M. S., *Chem.*

Louis H. Pammel, B. Agr., M. S., *Ph. D., Bot., Gen. Bact.*

Lizzie M. Allis, A. M., *Mod. Lang.*

Louis B. Spinney, B. M. E., M. S., *Phys., Elect. Engin.*

Alvin B. Noble, B. Ph., *Rhet., Lit.*

Henry E. Summers, B. S., *Zool.*

Charles A. Scott, B. S. A., *For.*

Martin Mortensen, (Assoc.) *Dairying; Actg. Head of Dairy Dept.*

Orange H. Cessna, A. M., D. D., *Hist., Psych.*

Willard J. Kennedy, B. S. A., *Animal Husb.*

Arthur MacMurray, B. A., M. O., *Public Speaking.*

Sybil Lentner, B. S., (Asst.) *Public Speaking.*

William H. Stevenson, A. B., B. S. A., *Soils.*

J. Brownlee Davidson, B. S., M. E., *Agr. Engin.*

Richard C. Barrett, A. M., LL. B., *Civics.*

Spencer A. Beach, B. S. A., M. S., *V. Dean Div. Agr.; Hort.*

Benjamin H. Hibbard, B. Agr., Ph. D., *Econ. Sci.*

Mrs. Alice Dynes-Feuling, B. S., *Dom. Econ.*

M. L. Bowman, B. S. A., *Farm Crops.*

Louis G. Michael, B. S., M. A., *Chem.*

Maria M. Roberts, B. L., (Assoc.) *Math.*

Arthur T. Erwin, B. S., M. S. A., (Assoc.) *Hort.*

Helen Donovan, (Assoc.) *Dom. Econ.*

Lola A. Placeway, B. S., (Assoc.) *Chem.*

Winfred F. Coover, A. M., (Assoc.) *Chem.*

Wayne Dinsmore, B. S. A., (Assoc.) *Animal Husb.*

R. R. Dykstra, D. V. M., (Assoc.) *Anat., Obstetrics.*

Vina E. Clark, *Libr.*

Herman Knapp, B. S. A., *Registrar.*

Elizabeth Maclean, M. Dr., (Assoc.) *Engl.*

C. H. Stange, D. V. M., (Assoc.) *Vet. Med.*

Joseph E. Guthrie, M. S., (Asst.) *Zool.*

Ira O. Schaub, B. S., (Asst.) *Soils.*

Ernest A. Pattengill, B. S., (Asst.) *Math.*

Julia Colpitts, A. M., (Asst.) *Math.*

Robert E. Buchanan, M. S., Ph. D., (Asst.) *Gen. Bact.*

Hugh G. Van Pelt, B. S. A., (Asst.) *Animal Husb.; Supt. Dairy Farm.*

Louis B. Schmidt, A. M., (Asst.) *Hist.*

A. H. Hoffman, A. M., B. S. IN E. E., (Asst.) *Phys.*

W. B. Anderson, M. S., Ph. D., (Asst.) *Phys.*

Ruth Morrison, Ph. B., (Asst.) *Dom. Econ.*

John Bower, B. S. A., (Asst.) *Dairying.*

W. E. Madson, D. V. M., (Asst.) *Vet. Med.*

H. C. Pierce, B. S. A., (Asst.) *Animal Husb.; in charge of Poultry.*

H. E. Bemis, B. S., D. V. M., (Asst.) *Vet. Med.*

Julia R. Vaulx, A. M., (Asst.) *Engl.*



- Dora G. Tompkins, A. M., (*Asst.*) *Engl.*  
 J. E. Brindley, A. M., (*Asst.*) *Econ. Sci.*  
 Harry G. Bell, B. S. A., (*Asst.*) *Farm Crops.*  
 B. W. Crossley, B. S. A., (*Asst.*) *Farm Crops.*  
 Mrs. Marian H. Kilbourne, B. L., *Dean of Women; Instr. Hist. of Art.*  
 Alexander S. Thompson, *Dir. of Music; Piano, Pipe Organ, Voice.*  
 Mrs. Clara D. Thompson, *V. Dir. of Music; Instr. Voice, Piano, Organ.*  
 Louise Peters, A. M., *Instr. German.*  
 W. R. Raymond, B. A., *Instr. Engl.*  
 Laura Taggart, B. S., *Instr. Chem.*  
 Melissa Flynn, B. S., *Instr. Chem.*  
 C. E. Bartholomew, M. S., *Instr. Ent.*  
 Ethyl Cessna, B. S., *Instr. Hist.*  
 M. W. Pullen, B. S. IN E. E., *Instr. Phys.*  
 Mabel Campbell, B. S., *Instr. Dom. Econ.*  
 Agnes Mosher, B. S., *Instr. Math.*  
 W. D. Foster, *Instr. Engl.*  
 Ingeborg Lommen, A. B., M. L., *Instr. German.*  
 Lola Stephens, B. S., *Instr. Chem.*  
 C. V. Gregory, B. S. A., *Instr. Agr. Journalism.*  
 Annie Fleming, B. S., *Instr. Math.*  
 Grace I. Norton, B. A., *Instr. German.*  
 Ward M. Jones, B. C. E., *Instr. Math.*  
 Marie Zimmerman, A. B., *Instr. German.*  
 Mary P. Fairfield, A. B., *Instr. French.*  
 Daisy A. Arville, A. B., *Instr. Spanish.*  
 Mary M. Morris, Ph. B., *Instr. Engl.*  
 Winifred Tilden, B. A., *Instr. Phys. Culture.*  
 Estelle D. Fogel, B. A., M. S., *Instr. Bot.*  
 Carrie Waters, B. A., *Instr. Hist.*  
 E. W. Hamilton, B. S. A., *Instr. Agr. Engin.*  
 T. E. Culp, *Instr. Dairying.*  
 Joseph F. Barker, B. S. A., *Instr. Soils.*  
 William Kunerth, A. B., *Instr. Elect. Engin. and Phys.*  
 Helen F. Smith, A. B., *Instr. Math.*  
 Fredrica V. Shuttuck, A. B., *Instr. Public Speaking.*  
 Rieth Safford, B. L., *Instr. Engl.*  
 Florence Armstrong, Ph. B., *Instr. Engl.*  
 E. N. Wentworth, B. S. A., *Instr. Animal Husb.*  
 Charles L. Mundhenk, *Dir. Band; Instr. Brass Instruments.*  
 Harriette Kellogg, A. M., *Curator of the Herbarium.*  
 F. W. Meyer, *Gard.*  
 George Mitchell, *Farm Foreman.*  
 W. A. Lippincott, *Poultryman.*  
 R. L. Webster, *Asst. in Ent.*  
 F. G. Churchill, B. S. A., *Asst. in Chem.*  
 O. J. B. Smith, B. S. A., *Asst. in Hort.*  
 R. W. Getchell, A. B., *Asst. in Chem.*  
 Lillian Lister, B. A., *Asst. in Chem.*  
 Winfield S. Dudgeon, B. S., *Asst. in Bot.*  
 Royal Jeffs, B. S. A., *Asst. in Bot.*  
 Ada Hayden, B. S., *Asst. in Bot.*  
 Mabel Rundall, B. S., *Asst. in Engl.*  
 Carolyn Grimsby, B. S., *Reference Libr.*  
 Vera Dixon, B. S., *Asst. Libr.*  
 R. E. Carr, *Asst. in Agr. Engin.*  
 B. M. Madson, B. S. A., *Asst. in Chem.*  
 John T. Hoover, *Asst. in Agr. Engin.*  
 Henry Ness, B. S., *Asst. in Zool.*  
 Judson H. Criswell, B. S., *Asst. in Farm Crops.*  
 Edwin E. Little, M. S. A., *Asst. in Hort.*  
 L. C. Burnett, M. S. A., *Asst. in Farm Crops.*  
 E. T. Robbins, B. S., M. S. A., *Asst. in Animal Husb.*  
 Matt L. King, B. M. E., *Expt. in Agr. Engin.*  
 Charlotte M. King, *Asst. in Bot.*  
 Laurenz R. Greene, B. S., *Asst. in Hort.*  
 Stella A. Hartzell, M. A., *Asst. in Chem.*  
 John P. Watson, *Phys. Dir.*  
 Margaret Forgeus, A. B., *Libr. Cataloguer.*  
 George Judisch, *Lect. in Pharm.*

## Nonresident Lecturer.

E. T. Perkins, *The Development of Government Irrigation in the West.*

## Agricultural Extension.

Perry G. Holden, M. S., B. Pd., <i>Supt.</i>	Edith G. Charlton, <i>Household Econ.</i>
Ralph K. Bliss, B. S. A., <i>Animal Husb.</i>	Ashley Van Storm, Ph. B., <i>in charge of Public School Work.</i>
Addison H. Snyder, B. S., <i>Soils.</i>	G. R. Bliss, B. S. A., <i>Asst. in Hort.</i>
Ralph E. Drennan, B. S. A., <i>Asst. in Animal Husb.</i>	Miss Neale S. Knowles, <i>Dom. Econ.</i>
H. C. Horneman, <i>Dairying.</i>	

## Iowa Agricultural Experiment Station, Ames.

Department of Iowa State College of Agriculture and Mechanic Arts, under the control of the Board of Trustees.

## STATION STAFF.

C. F. Curtiss, M. S. A., D. S., <i>Dir.</i>	L. C. Burnett, M. S. A., <i>Asst. in Farm Crops; in charge of Plant Breeding.</i>
W. J. Kennedy, B. S. A., <i>V. Dir.; Animal Husb.</i>	M. L. King, B. M. E., <i>Expt. in Agr. Engin.</i>
S. A. Beach, B. S. A., M. S., <i>Hort.</i>	John Bower, B. S. A., <i>Asst. in Dairying.</i>
L. H. Pammel, B. Agr., M. S., Ph. D., <i>Bot.</i>	H. G. Van Pelt, B. S. A., <i>Asst. Animal Husb.</i>
H. E. Summers, B. S., <i>Ent.</i>	H. C. Pierce, <i>Asst. Animal Husb.; in charge of Poultry.</i>
C. H. Stange, D. V. M., <i>Vet.</i>	Harriette Kellogg, A. M., <i>Asst. Bot.</i>
W. H. Stevenson, A. B., B. S. A., <i>Soils.</i>	R. L. Webster, A. B., <i>Asst. Ent.</i>
Louis G. Michael, B. S., <i>Agr. Chem.</i>	Stella A. Hartzell, A. M., <i>Asst. Chem.</i>
M. L. Bowman, B. S. A., <i>Farm Crops.</i>	J. H. Allison, jr., <i>Asst. in Plant Introduction.</i>
J. B. Davidson, B. S. IN M. E., <i>Agr. Engin.</i>	Charlotte M. King, <i>Asst. Bot.</i>
C. A. Scott, B. S. A., <i>For.</i>	J. H. Criswell, B. S., <i>Supt. of Field Crops.</i>
A. T. Erwin, B. S., M. S. A., <i>Asst. Hort.</i>	C. V. Gregory, <i>Bulletin Editor.</i>
I. O. Schaub, B. S., <i>Asst. in Soils.</i>	
E. E. Little, M. S. A., <i>Asst. Hort.</i>	
E. T. Robbins, B. S., M. S. A., <i>Asst, Animal Husb.</i>	

## KANSAS.

## Kansas State Agricultural College, Manhattan.

## GOVERNING BOARD.

Board of Regents: A. M. Story (*Pres.*), *Manhattan*; J. O. Tulloss (*V. Pres.*), *Sedan*; J. S. McDowell, *Smith Center*; George P. Griffith, *Hays City*; Edwin Taylor, *Edwardsville*; W. E. Blackburn, *Anthony*; E. R. Nichols (*Sec. ex officio*), *Manhattan*.

## COURSES OF STUDY.

There are thirteen four-year courses of study, viz: Agronomy, animal husbandry, dairy husbandry, poultry husbandry, horticulture and forestry, mechanical engineering, electrical engineering, civil engineering, architecture, printing, domestic science and art, general science (B. S.), and veterinary science (D. V. M.); post-graduate courses; four short courses—domestic science,

requiring two terms of twelve weeks; farmers' courses, requiring two winter terms of ten weeks each; summer domestic science course for teachers; six weeks' summer school in agriculture for teachers; a dairy course, two terms of ten weeks each, and a one-year preparatory course.

## BOARD OF INSTRUCTION.

Ernest R. Nichols, A. M., *President.*

John D. Walters, M. S., *Arch. and Draw.*

Julius T. Willard, D. Sc., *Chem.*

Edw. H. Webster, B. Agr., M. S., *Dean Agr.*

Benj. L. Remick, Ph. M., *Math.*

Benj. F. Eyer, B. S., *Elect. Engin.*

Herbert F. Roberts, A. B., M. S., *Bot.*

Wm. A. McKeever, A. M., Ph. M., *Philos.*

Edmund B. McCormick, S. B. in M. E., *Dean Mech. Arts; Mech. Engin.; Supt. of Shops.*

Albert Dickens, M. S., *Hort.; Supt. of Grounds.*

Clark M. Brink, A. M., Ph. D., *Dean Sci.; Engl.*

Albert M. Ten Eyck, B. Agr., M. S., *Agron.; Farm Supt.*

Ralph R. Price, A. M., *Hist., Civics.*

Julius E. Kammeyer, A. M., *Econ.*

John V. Cortelyou, A. M., Ph. D., *German.*

Olof Valley, B. M., *Music.*

Francis S. Schoenleber, M. S. A., D. V. S., M. D., *Vet. Sci.*

Roland J. Kinzer, B. S. Agr., *Animal Husb.*

Walter E. King, M. A., *Bact.*

T. J. Headlee, A. M., Ph. D., *Ent.*

Joshua D. Rickman, *Supt. of Print.*

Charles H. Boice, 1st Lieut., U. S. A., *Mil. Sci.*

John C. Kendall, B. S., *Dairy Husb.*

John O. Hamilton, B. S., *Phys.*

Mrs. Mary P. Van Zille, *Dean of Women.*

Marguerite E. Barbour, *Dir. Phys. Training.*

Antonetta Becker, *Supt. Dom. Art.*

Robt. J. Barnett, B. S., *Prin. Prep. Dept.*

Jacob Lund, M. S., *Supt. Heat and Power Dept.*

John H. Miller, A. M., *Supt. Farmers' Insts.*

Lorena E. Clemons, B. S., *Sec.*

Andrey A. Potter, S. B., (*Asst.*) *Mech. Engin.*

Robert H. Brown, B. M., B. S., (*Asst.*) *Music.*

Benjamin R. Ward, A. M., (*Asst.*) *Engl.*

George A. Dean, M. S., (*Asst.*) *Ent.*

George F. Freeman, B. S., (*Asst.*) *Bot.*

Geo. C. Wheeler, B. S., (*Asst.*) *Animal Husb.*

Wm. H. Andrews, A. B., (*Asst.*) *Math.*

Robert E. Eastman, M. S. A., (*Asst.*) *For.*

L. E. Conrad, (*Asst.*) *Civil Engin.*

Ada Rice, B. S., *Instr. Engl.*

Ella Weeks, A. B., *Instr. Draw.*

Daisy Zeininger, B. A., *Instr. Math.*

Leonard W. Goss, D. V. M., *Instr. Vet. Sci.*

Ula M. Dow, B. S., *Instr. Dom. Sci.*

Theo. H. Scheffer, M. A., *Instr. Zool.*

Herbert H. King, M. A., *Instr. Chem.*

John B. Whelan, M. A., *Instr. Chem.*

Wm. L. House, *Foreman Carpenter Shop.*

Gertrude Barnes, *Libr.*

Louis Wabnitz, *Foreman Mach. Shops.*

Ina E. Holroyd, B. S., *Asst. in Prep. Dept.*

Ambrose E. Ridenour, B. S., *Foreman Foundry.*

Emma J. Short, *Asst. in Prep. Dept.*

Ina F. Cowles, B. S., *Asst. in Dom. Art.*

Kate Tinkey, *Asst. Libr.*

Earl N. Rodell, B. S., *Asst. in Print.*

Roy A. Seaton, B. S., *Asst. in Mech. Engin.*

M. Francis Ahearn, B. S., *Asst. in Hort.*

Gertrude Stump, B. S., *Asst. in Dom. Art.*

M. Sheldon Brandt, Ph. B., *Asst. in Arch. and Draw.*

Earle B. Milliard, *Foreman Blacksm.*

J. T. Parker, *Asst. in Woodwork.*  
 J. D. Magee, A. M., *Asst. in Math.*  
 E. G. Meinzer, A. B., *Asst. in German.*  
 Florence S. Latimer, B. M., *Asst. in Music.*  
 Marjorie Russell, *Asst. in Dom. Sci.*  
 Burton R. Rogers, D. V. M., *Asst. in Vet. Sci.*  
 Clara Willis, *Asst. in Dom. Sci.*  
 Edw. C. Crowley, Ph. B., *Asst. in Chem.*  
 Hugh Oliver, *Asst. in Heat and Power Dept.*  
 Charlaïne Furley, B. A., *Asst. in Engl.*  
 Jessie Reynolds, A. B., *Asst. in Prep. Dept.*  
 Leland E. Call, B. S., *Asst. in Agron.*  
 Mary F. Nesbit, A. B., *Asst. in Math.*  
 Annette Leonard, A. B., *Asst. in Engl.*  
 Wm. C. Lane, B. S., *Asst. in Elect. Engin.*  
 Louis H. Beall, A. B., *Asst. in Engl.*  
 Flora C. Knight, A. B., *Asst. in Engl.*  
 Grace H. Woodward, *Asst. in Dom. Sci.*  
 Nellie Cave, *Asst. in Music.*  
 Margaret Mack, *Asst. in Prep. Dept.*  
 Edwin G. Schafer, B. S., *Asst. in Agron.*  
 Charles S. Knight, B. S. A., *Asst. in Agron.*  
 Orin A. Stevens, B. S., *Asst. in Bot.*

Mary W. Hancock, *Asst. in Dom. Art.*  
 S. W. McGarrah, A. M., *Asst. in Math.*  
 Carl G. Elling, B. S., *Asst. in Animal Husb.*  
 Kirk H. Logan, B. S., *Asst. in Phys.*  
 C. A. A. Utt, B. S., *Asst. in Chem.*  
 E. L. Sieber, A. B., *Asst. in Chem.*  
 Earle Brintnall, B. S. A., *Asst. in Dairy Husb.*  
 J. B. Parker, M. A., *Asst. in Ent.*  
 Florence Warner, A. B., *Asst. Libr.*  
 Anna Gordon, A. B., *Asst. in Prep. Dept.*  
 Bertha M. Johnston, *Asst. in Dom. Sci.*  
 Harrison E. Porter, B. S., *Asst. in Math.*  
 Alexander Edgar, *Herdsman.*  
 Wm. A. Lamb, *Poultryman.*  
 A. G. Phillips, B. S. A., *Asst. Poultryman.*  
 L. D. Bushnell, B. S., *Asst. in Bact.*  
 R. C. Wiley, B. S., *Asst. in Chem.*  
 John E. Smith, B. S., *Asst. in Bot.*  
 J. C. Cunningham, B. S., *Asst. in Hort.*  
 K. W. Stouder, D. V. M., *Asst. Vet.*  
 Annie E. Linckey, *Asst. in Dom. Sci.*  
 Bertha Donaldson, *Asst. in Dom. Art.*  
 L. E. Petty, *Asst. in Math.*  
 D. E. Rudolph, *Asst. in Music.*  
 Bertha Bisby, *Asst. in Prep. Dept.*  
 Floyd Howard, *Farm Foreman.*

### Kansas Agricultural Experiment Station, Manhattan.

Department of Kansas State Agricultural College, under the control of the Board of Regents.

#### STATION STAFF.

E. H. Webster, B. Agr., M. S., *Dir.*  
 J. T. Willard, D. Sc., *V. Dir.; Chem.*  
 H. F. Roberts, A. B., M. S., *Bot.*  
 Albert Dickens, M. S., *Hort.*  
 A. M. Ten Eyck, B. Agr., M. S., *Agron.*  
 F. S. Schoenleber, M. S. A., D. V. S.,  
 M. D., *Vet.; State Vet.*  
 R. J. Kinzer, B. S. A., *Animal Husb.*  
 J. C. Kendall, B. S., *Dairy Husb.*  
 T. J. Headlee, A. M., Ph. D., *Ent.*  
 W. E. King, A. M., *Bact.*  
 G. A. Dean, M. S., *Asst. Ent.*  
 R. E. Eastman, M. S. A., *Asst. Hort.*  
 G. F. Freeman, B. S., *Asst. Bot.*

G. C. Wheeler, B. S., *Asst. Animal Husb.*  
 C. O. Swanson, M. Agr., *Asst. Chem.*  
 L. E. Call, B. S., *Asst. Agron.*  
 E. G. Schafer, B. S., *Asst. Agron.*  
 C. G. Elling, B. S., *Asst. Animal Husb.*  
 O. A. Stevens, B. S., *Asst. Bot.*  
 E. L. Sieber, A. B., *Asst. Chem.*  
 J. B. Parker, M. A., *Asst. Ent.*  
 Earle Brintnall, B. S. A., *Asst. Dairy Husb.*  
 A. G. Phillips, B. S. A., *Asst. Poultryman.*  
 R. C. Wiley, B. S., *Asst. Chem.*



L. D. Bushnell, B. S., *Asst. Bact.*  
 J. C. Cunningham, B. S., *Asst. Hort.*  
 K. W. Stouder, D. V. M., *Asst. Vet.*  
 Lorena E. Clemons, B. S., *Sec.*  
 C. K. McClelland, M. S., *Supt. Fort  
 Hays Branch Expt. Sta., Hays.*  
 G. K. Helder, *Sec. Fort Hays Branch  
 Expt. Sta., Hays.*

A. D. Colliver, B. S., *Asst. Agr., Fort  
 Hays Branch Expt. Sta., Hays.*  
 L. E. Hazen, B. S., *Asst. Hort., Fort  
 Hays Branch Expt. Sta., Hays.*  
 James A. Milham, B. S., *Asst. Animal  
 Insb., Fort Hays Branch Expt. Sta.,  
 Hays.*

## KENTUCKY.

The State University, *Lexington.*

### GOVERNING BOARD.

Board of Trustees: Gov. Augustus E. Willson (*ex officio*), *Frankfort*; J. G. Crabbe (*Supt. of Public Instr., ex officio*), *Frankfort*; R. C. Stoll, *Lexington*; Cassius M. Clay, *Paris*; D. F. Frazee \* (*Sec.*), *Lexington*; Robt. L. Stout, *Versailles*; R. N. Wathen, *Lebanon*; B. M. Brooks, *Slaughterville*; F. A. Hopkins, *Prestonburg*; Chas. B. Nichols, \* *Lexington*; J. K. Patterson \* (*ex officio*), *Lexington*; T. Carpenter, *Scottsville*; H. S. Barker, *Louisville*; W. T. Lafferty, *Cynthiana*; D. P. Smith, *Cadiz*; C. B. Terrill, *Bedford*; H. Davies, *Kensee*; L. L. Walker, *Lancaster*.

### COURSES OF STUDY.

The following four-year courses of study are offered: Agriculture (B. S. Agr.); scientific and domestic science (B. S.); two classical courses (A. B.); mechanical engineering (B. M. E.); civil engineering (B. C. E.); mining engineering (B. E. M.); two courses in education (B. S. Ed. and B. A. Ed., respectively); three-year preparatory course; two-year course and short winter course in agriculture; two-year courses in law, rural or highway engineering, and mining engineering, and a short course for miners.

### BOARD OF INSTRUCTION.

James K. Patterson, PH. D., LL. D., *President; Metaphysics, History, and Political Economy.*

James G. White M. A., *Math., Astron.*  
 Alfred C. Zembrod, A. B., PH. D.  
*French, German.*

Franklin E. Tuttle, PH. D., *Chem.*

J. T. C. Noe, A. M., *Actg. Dean, Dept.  
 of Ed.*

Arthur M. Miller, A. M., *Zool., Ent.,  
 Geol.*

Clarence W. Mathews, B. S., *Dean Agr.  
 Course; Agr., Hort., Bot.; Sec.*

Walter E. Rowe, M. S., M. C. E., *Civil  
 Engin.*

Merry L. Pence, M. S., *Phys.*

Alexander St. Clair Mackenzie, M. A.,  
*Engl. and Logic.*

Philip W. Corbusier, M. C. E., 1st  
 Lieut., U. S. A., *Mil. Sci.; Comdt.*

Joseph W. Pryor, M. D., *Anat. and  
 Physiol.; Surgeon.*

W. K. Patterson, M. A., *Prin. Academy.*

John L. Purdom, *Asst. in Academy.*

A. G. McGregor, *Asst. in Academy.*

Knox Jameson, B. S., *Asst. in Acad-  
 emy.*

W. S. Hamilton, *Asst. in Academy.*

Alfred H. Gilbert, B. S., (*Asst.*) *Bot.,  
 Hort.*

Ralph N. Maxon, PH. D., (*Asst.*)  
*Chem.*

Theo. T. Jones, M. A., (*Asst.*) *Greek,  
 Lat.*

J. M. Davis, B. A., B. S., (*Asst.*) *Math.*

C. R. Melcher, A. M., LL. B., (*Asst.*)  
*French, German.*



J. J. Hooper, B. S., M. S. A., ( <i>Asst.</i> ) <i>Animal Husb. and Asst. in Agr.</i>	Isabella W. Marshall, A. B., <i>Instr.</i> <i>Dom. Sci.</i>
W. S. Webb, M. S., ( <i>Asst.</i> ) <i>Phys.</i>	Harry Essex, A. B., <i>Asst. in Chem.</i>
James E. Tuthill, PH. D., ( <i>Asst.</i> ) <i>Hist. and Econ.</i>	Martha R. White, M. S., <i>Asst. in Math.</i>
Robert C. Terrell, B. C. E., ( <i>Asst.</i> ) <i>Rural and Highway Engin.</i>	Lloyd C. Daniels, PH. D., <i>Instr. Chem.</i>
Sue D. McCann, M. S., <i>Instr. Zool., Ent.</i>	J. R. Jenness, <i>Asst. in Phys.</i>
Mrs. Florence O. Stout, <i>Phys. Ed.</i> ; <i>Dean of Women.</i>	Guy B. Taylor, B. S., <i>Asst. in Chem.</i>
W. Walter H. Mustaine, B. S., <i>Phys.</i> <i>Dir.</i>	Arthur B. Beaumont, B. S., <i>Asst. in</i> <i>Chem.</i>
	Joseph Miller, <i>Asst. in Mil. Sci.</i>
	Margaret I. King, A. B., <i>Registrar.</i>
	David C. Frazee, <i>Business Agt.</i>

### Kentucky Agricultural Experiment Station, Lexington.

Department of the State University, under the control of the Board of Trustees.

#### STATION STAFF.

M. A. Scovell,* M. S., PH. D., <i>Dir.</i> ; <i>Chem.</i>	George Roberts, B. PED., M. S., <i>Chem.</i> ( <i>Fert. Div.</i> ).
A. M. Peter, M. S., <i>Chem.</i> ; <i>Head of</i> <i>Chem. Div.</i>	E. S. Good, M. S., <i>Head of Animal</i> <i>Husb. Div.</i>
H. E. Curtis, M. S., <i>Chem.</i> ; <i>Head of</i> <i>Fert. Div.</i>	J. W. Nutter, <i>Asst. in Dairying.</i>
Harrison Garman, <i>Ent., Bot.</i> ; <i>Head of</i> <i>Ent. and Bot. Div.</i>	T. R. Bryant, B. AGR., <i>Asst. Animal</i> <i>Husb.</i>
W. H. Scherffius, M. S., <i>Head of Agr.</i> <i>Div.</i>	H. D. Spears, M. S., <i>Chem. (Feed</i> <i>Div.)</i> .
R. M. Allen, A. B., <i>Head of Food Div.</i>	E. J. Kinney, B. S. AGR., <i>Asst. Ent.,</i> <i>Bot.</i>
J. D. Turner, B. PED., <i>Head of Feed</i> <i>Div.</i> ; <i>Sta. Sec.</i>	J. W. McFarlin, B. S., <i>Asst. in Fert.</i> <i>and Feed Divs.</i>
J. O. La Bach, M. S., <i>Chem. (Food</i> <i>Div.)</i> .	B. F. Scherffius, B. AGR., <i>Asst. in Food</i> <i>Div.</i>
Mary L. Didlake, M. S., <i>Asst. Ent., Bot.</i>	W. E. Gary, B. S., M. D., <i>Asst. in Food</i> <i>Div.</i>
S. D. Averitt, M. S., <i>Chem.</i>	W. C. Matthews, A. B., <i>Artist.</i>
O. M. Shedd, M. S., <i>Asst. Chem.</i>	E. F. Worthington, <i>Farm Supt.</i>
E. C. Vaughn, A. B., <i>Asst. Ent., Bot.</i>	

### The Kentucky Normal and Industrial Institute for Colored Persons, Frankfort.

#### GOVERNING BOARD.

Board of Trustees: J. G. Crabbe (*Chair.*), *Frankfort*; E. E. Hume, *Frankfort*; Jno. C. Noel, *Frankfort*; J. J. Brislan, *Frankfort*; John H. Jackson (*ex officio*), *Frankfort*; M. A. Cassidy, *Lexington*.

#### COURSES OF STUDY.

The courses of study are eight: Normal, carpentry, agricultural, business, cooking, music, dressmaking, and printing. The school grants State diplomas to normal graduates.

## BOARD OF INSTRUCTION.

John H. Jackson, A. M., <i>President; Pedagogy, Ethics, and History of Education.</i>	
W. H. Clarke, A. M., <i>Dean and Dir. Dept. Nat. Sci.</i>	Paul W. L. Jones, <i>Instr. Prep. Dept.</i>
Will M. Jackson, <i>Steward; Instr. Normal Dept.</i>	T. J. Garth, <i>Sci. Agr.</i>
Lulu L. Coleman, <i>Libr.; Instr. Normal Dept.</i>	Mrs. Addie G. Smith, <i>Matron; Instr. Cooking.</i>
Samuel M. Van Cleave, A. M., <i>Prin. of Prep. Dept.</i>	Mabel Scott, <i>Instr. Sew. and in Prep. Dept.</i>
Ernest E. Reed, <i>Instr. in Prep. and Normal Depts.</i>	Lavina M. Hartshorn, <i>Sec. to Pres.; Dir. Business Course.</i>
	Laura Smith, <i>Dir. Dept. of Music.</i>
	Lloyd Graves, <i>Farm Foreman.</i>

## LOUISIANA.

Louisiana State University and Agricultural and Mechanical College,  
Baton Rouge.

## GOVERNING BOARD.

Board of Supervisors: Gov. J. Y. Sanders (*ex officio Pres.*), Baton Rouge; Henry L. Fuqua (*V. Pres.*), Baton Rouge; S. McC. Lawrason, St. Francisville; Hon. T. H. Harris (*ex officio Supt. Public Education*), Baton Rouge; Thos. D. Boyd (*ex officio Pres. State University*), Baton Rouge; A. T. Prescott (*Sec.*), Baton Rouge; Roger P. Swire (*Treas.*), Baton Rouge; H. S. Chenet, New Orleans; C. J. Ducote, Cottonport; C. C. Davenport, Mer Rouge; George K. Pratt, New Orleans; George Hill, Port Allen; J. R. Thornton, Alexandria; G. H. Clinton, St. Joseph; J. C. Daspit, St. Martinville; S. M. Lyons, Vinton.

## COURSES OF STUDY.

In addition to the courses of study in the college of arts and sciences and the teachers' college, there are the two-year course of the school of agriculture, the four-year course of the college of agriculture, and short special courses; four-year courses in civil engineering, electrical engineering, mechanical engineering, and commerce; and five-year sugar engineering and chemical engineering courses.

## BOARD OF INSTRUCTION.

Thomas D. Boyd, A. M., LL. D., *President.*

James W. Nicholson, A. M., LL. D., <i>Math.</i>	Charles H. Stumberg, M. A., <i>Mod. Lang.; Libr.</i>
W. R. Dodson, A. B., B. S., <i>Agr.</i>	William H. Dalrymple, M. R. C. V. S., <i>Vet. Sci.</i>
B. H. Guilbeau, B. S., <i>Zool., Ent.</i>	L. S. Sorley, Capt., U. S. A., <i>Mil. Sci. and Tactics; Comdt. of Cadets.</i>
Edward L. Scott, M. A., <i>Ancient Lang.; Sec.</i>	J. I. Kelly, LL. B., PH. D., <i>Civil Law; Dean Law Dept.</i>
Boykin W. Pegues, B. S., <i>Civil Engin.</i>	Frank H. Burnette, <i>Hort.</i>
Wm. A. Read, PH. D., <i>Engl.</i>	Robt. L. Himes, <i>Commerce.</i>
Charles E. Coates, PH. D., <i>Chem.</i>	E. W. Kerr, M. E., <i>Mech. Engin.</i>
Ernst A. Bessey, PH. D., <i>Bot., Bact.</i>	W. B. Clark, <i>Dir. Music.</i>
Thomas W. Atkinson, B. S., C. E., <i>Phys., Elect. Engin.</i>	R. L. Henry, J. D., <i>Common Law.</i>
Albert M. Herget, <i>Mech. Arts, Draw.</i>	R. L. Tullis, LL. B., <i>Louisiana Jurisprudence.</i>
Arthur T. Prescott, M. A., <i>Polit. Sci.</i>	

Alex. B. Coffey, PH. D., *Pedag.*  
 D. T. Powers, A. M., (*Assoc.*) *Ed.*  
 Walter L. Fleming, PH. D., *Hist.*  
 A. G. Reed, PH. D., (*Asst.*) *Engl.*  
 S. T. Sanders, B. A., (*Asst.*) *Math.*  
 Roy R. Peck, M. A., (*Asst.*) *Romance*  
*Lang.*  
 E. L. Jordan, B. S., (*Asst.*) *Animal*  
*Husb.*  
 Charles McVea, M. D., *Surgeon.*  
 James F. Broussard, A. M., (*Asst.*)  
*Mod. Lang.*  
 Hugh M. Blain, PH. D., (*Asst.*) *Engl.*  
 A. F. Kidder, B. S., (*Asst.*) *Agron.*;  
*Prin. School of Agr.*  
 E. R. Wingard, *Dir. of Athletics.*  
 R. L. Menville, B. S., *Instr. Chem.*

Linton L. Cooper, B. S., *Instr. Mech.*  
*Arts, Draw.*  
 Max Bernheim, B. S., *Instr. Mech.*  
*Engin.*  
 Wm. O. Scroggs, A. M., *Asst. in Hist.*  
*and Econ.*  
 Mercedes Garig, *Asst. in Engl.*  
 D. W. Thomas, A. B., *Asst. in Latin.*  
 B. J. Sandoz, B. S., *Asst. in Sugar*  
*Chem.*  
 D. D. Cline, A. M., *Asst. in Math.*  
 E. H. Rousseau, B. S., *Asst. in Mech.*  
*Arts.*  
 L. J. Lassalle, B. S., *Asst. in Phys.*  
 M. G. Osborne, A. B., *Sec.*  
 Inez Mortland, *Asst. Libr.*

No. 1. Sugar Experiment Station, Audubon Park, New Orleans.

No. 2. State Experiment Station, Baton Rouge.

No. 3. North Louisiana Experiment Station, Calhoun.

Department of Louisiana State University and Agricultural and Mechanical  
 College.

#### GOVERNING BOARD.

State Board of Agriculture and Immigration: Gov. J. Y. Sanders (*Pres. ex officio*), Baton Rouge; Henry L. Fuqua (*V. Pres. ex officio*), Baton Rouge; Chas. Schuler (*Comr. ex officio*), Baton Rouge; Thos. D. Boyd (*Pres. State Univ. ex officio*), Baton Rouge; W. R. Dodson (*Dir. Expt. Stas.*), Baton Rouge; R. S. Moore, *St. Bernard*; J. J. Henderson, *Lagan*; Henry Gerac, *Lafayette*; J. E. Bullard, *Belmont*; J. T. Cole, *Monroe*; R. E. Thompson, *Wilson*; J. D. Marks, *Crowley*.

#### STATION STAFF.

Sugar Experiment Station, Audubon Park, New Orleans.

W. R. Dodson, A. B., B. S. (*Baton*  
*Rouge*), *Dir.*  
 H. P. Agee, B. S., *Asst. Dir.*; *Chem.*  
 P. A. Yoder, PH. D., *Chem.*

Wm. L. Owen, B. S. A., *Bact.*  
 W. G. Taggart, B. S., *Asst. Chem.*  
 R. E. Graham, B. S., *Asst. Chem.*

State Experiment Station, Baton Rouge.

W. R. Dodson, A. B., B. S., *Dir.*  
 S. E. McClendon, B. S., *Asst. Dir.*  
 W. H. Dalrymple, M. R. C. V. S., *Vet.*  
 F. H. Burnette, *Hort.*  
 Wilmon Newell, M. S., *Ent.*  
 Claude W. Edgerton, PH. D., *Plant*  
*Path.*  
 Jas. E. Halligan, B. S., *Chem.*  
 H. L. Green, B. S., *Asst. Chem.*  
 J. C. Summers, B. S., *Asst. Chem.*  
 A. P. Kerr, B. S., *Asst. Chem.*

R. G. Fuller, B. S., *Asst. Chem.*  
 W. D. Reid, B. S., *Asst. Chem.*  
 G. D. Harris, M. S., M. A., *Geol.*  
 F. L. Whitney, *Asst. Geol.*  
 R. P. Swire, *Treas.*  
 L. O. Reid, *Farm Mgr.*  
 J. T. Tanner, A. B., *Sec.*  
 Rene Baus, B. S., *Asst. Chem.*  
 Geo. Tiebout (*Roseland*), *Asst. Hort.*  
 E. M. Percy, B. S., *Asst. Chem.*

North Louisiana Experiment Station, *Calhoun*.

W. R. Dodson, A. B., B. S. ( <i>Baton Rouge</i> ), <i>Dir.</i>	E. J. Watson, <i>Hort.</i>
J. B. Garrett, B. S., <i>Asst. Dir.</i>	Ivy Watson, <i>Farm Mgr.</i>
	J. G. Lee, jr., B. S., <i>Feeding Expts.</i>

Southern University and Agricultural and Mechanical College, *New Orleans*.

## GOVERNING BOARD.

Board of Trustees: E. A. Carrere (*Pres.*), 806 *Perdido st.*, *New Orleans*; C. R. Panter (*Sec. and Treas.*), 2320 *Calhoun st.*, *New Orleans*; W. L. Riche-son, 4936 *Camp st.*, *New Orleans*; Wm. G. Napp, 5000 *Prytania st.*, *New Orleans*; Robert Rivarde, *Hennen Building*, *New Orleans*; F. L. Armstrong, 1636 *Ara-bella st.*, *New Orleans*; U. Marinani, 730 *Common st.*, *New Orleans*; W. H. Preis, 1101 *Soniat st.*, *New Orleans*; Ernest Ducangé, 5116 *Magazine st.*, *New Orleans*; H. H. Freeman, 5222 *Chestnut st.*, *New Orleans*; J. W. Cooke, *Lake Providence*; E. W. Sorrell, *Plaquemine*.

## COURSES OF STUDY.

The university is divided into the following departments: College, normal school, high school (college preparatory), grammar school, department of music, and industrial department. In the industrial department there is an agricultural school, a mechanical school, girls' industrial school, school of print-ing, and a dairy school, the first two having two and four year courses and the last a two-year course.

## BOARD OF INSTRUCTION.

H. A. Hill, *President*; *Mental and Moral Philosophy*.

F. L. St. Martin, <i>Supt. Agr. Dept.</i>	Miss A. F. Lewis, <i>Engl.</i> ; <i>Teacher in High School</i> .
E. P. Barrell, <i>Chem., Phys.</i>	Lillie S. Larkins, <i>Phys., Geog.</i>
Chas. E. Roos, <i>Engl., Ancient Lang.</i>	Miss M. C. Caufield, <i>El. Sci.</i>
W. J. Nickerson, <i>Prin. Music Dept.</i>	Mrs. A. T. Getz, <i>Physiol.</i>
Mrs. E. P. Barrell, <i>Prin. Girls' Indus. Section</i> .	W. B. Smith, <i>Hist.</i>
Mrs. L. M. Martinet, <i>Math.</i>	S. J. Green, <i>Asst. in Math.</i>
Ernestine M. Theophile, <i>Asst. in Math.</i>	H. S. Edwards, <i>Asst. in Engl.</i>

## MAINE.

College of Agriculture of the University of Maine, *Orono*.

## GOVERNING BOARD.

Board of Trustees: Edw. B. Winslow (*Pres.*), *Portland*; S. P. Mills, *Stonington*; Chas. L. Jones,\* *Corinna*; J. A. Roberts,\* *Norway*; S. W. Gould,\* *Skow-hegan*; E. J. Haskell, *Westbrook*; I. K. Stetson (*Treas.*), *Bangor*; W. T. Haines, *Waterville*; John M. Oak, *Bangor*.

## COURSES OF STUDY.

There are four-year elective courses in classics, modern languages, English, mathematics, physics, chemistry, biology, history, economics, and philosophy (B. A. or B. S.); four-year technical courses in chemistry, pharmacy, agron-omy, animal husbandry, horticulture, forestry, civil engineering, mechanical



engineering, electrical engineering, chemical engineering, and first two years of mining engineering (B. S.); a three-year course in School of Laws (LL. B.); a two-year course in pharmacy (Ph. C.); two-year school course in agriculture; winter courses in agriculture, dairying, and horticulture of eight weeks, followed by a two weeks' course in poultry management; and correspondence courses in agriculture.

## BOARD OF INSTRUCTION.

George Emory Fellows, PH. D., L. H. D., LL. D., *President of the University; History.*

William D. Hurd, B. S., *Dean; Agron.*

E. D. Waid, B. S., (*Asst.*) *Agron.*

J. E. McClintock, B. S., *Agr. Ext. Work.*

Percy A. Campbell, M. S. A., *Animal Indus.*

Gilman A. Drew, PH. D., *Biol.*

Fremont L. Russell, B. S., V. S., *Bact., Vet. Sci.*

Edith M. Wallace, B. A., *Instr. Biol.*

Mintin A. Chrysler, PH. D., (*Assoc.*) *Bot.*

Harry N. Conser, M. S., *Instr. Bot.*

Lucius H. Merrill, Sc. D., *Biol. and Agr. Chem.*

Alfred B. Aubert, M. S., *Chem.*

James Seymour, PH. G., B. S., *Instr. Chem.*

Willis F. Washburn, B. S., *Instr. Chem.*

Robert E. Clayton, B. S., *Instr. Chem.*

Robert J. Sprague, PH. D., *Econ.*

Horace M. Estabrooke, M. A., *Engl.*

W. A. Brown, B. S. A., (*Asst.*) *Poultry Husb.*

Guy A. Thompson, M. A., (*Asst.*) *Engl.*

Walter E. Prince, M. A., *Instr. Engl.*

George E. Pearson, M. A., *Instr. Engl.*

Windsor P. Daggett, PH. B., *Public Speaking.*

Gordon E. Tower, M. F., *For.*

Joseph W. Carr, PH. D., *German.*

Carolyn Colvin, PH. D., *Hist.*

V. R. Gardner, M. S. A., (*Asst.*) *Hort.*

James N. Hart, Sc. D., C. E., *Math., Astron.*

Harley R. Willard, M. A., (*Asst.*) *Math.*

Elmer E. Moots, B. C. E., *Instr. Math.*

Henry L. Sweet, B. A., *Instr. Math.*

Lowell J. Reed, B. S., *Instr. Math.*

Archer L. Grover, B. S., *Instr. Draw.*

Walter S. Brown, Capt., U. S. A., *Mil. Sci. and Tactics.*

Wallace Craig, PH. D., *Philos.*

James S. Stevens, PH. D., *Phys.*

Leon E. Woodman, M. A., (*Asst.*) *Phys.*

Edward A. Garlock, B. S., *Instr. Phys.*

Joseph A. Coon, B. A., *Instr. Phys.*

Jacob B. Segall, PH. D., *Romance Lang.*

Alfred P. Raggio, PH. D., (*Asst.*) *Romance Lang.*

Gladys E. Fellows, B. A., *Instr. Romance Lang.*

Ralph K. Jones, B. S., *Libr.*

## Maine Agricultural Experiment Station, Orono.

Department of the University of Maine, under the control of the Board of Trustees of the University.

## STATION STAFF.

Chas. D. Woods, Sc. D., *Dir.*

J. M. Bartlett, M. S., *Chem.*

H. H. Hanson, M. S., *Assoc. Chem.*

Joanna C. Colcord, B. S., *Asst. Chem.*

Raymond Pearl, PH. D., *Biol.*

Frank M. Surface, PH. D., *Assoc. Biol.*

F. L. Russell, B. S., V. S., *Asst. Biol.*

Walter Anderson, *Poultry Invest.*

Edith M. Patch, B. S., *Ent.*

W. J. Morse, M. S., *Veg. Path.*

C. E. Lewis, PH. D., *Assoc. Veg. Path.*

R. C. Gellerson, B. S., *Insp.*

J. F. Merrill, B. S., *Asst. Chem.*

R. L. Hammond, *Seed Analyst, Photog.*

Miss M. R. Curtis, A. M., *Asst. Biol.*

F. D. Sterry, *Lab. Asst. in Veg. Path.*

Alice W. Averell, *Lab. Asst. in Ent.*

H. A. Millet, *Met. Observer.*



## MARYLAND.

Maryland Agricultural College, College Park.

## GOVERNING BOARD.

Board of Trustees: *Ex officio*—Gov. Austin L. Crothers (*Pres.*), *Annapolis*; J. W. Hering, *Westminster*; I. L. Straus, *Baltimore*; Murray Vandiver\* (*State Treas.*), *Havre de Grace*; Joseph B. Seth, *Easton*; Hon. James Wilson, *Washington, D. C.*; J. Enos Ray, *Washington, D. C.*; Richard S. Hill, *Upper Marlboro*; Chas. H. Stanley, *Laurel*; E. Gittings Merriman, *Cockeysville*; J. Harold Walsh, *Upper Falls*; F. Carroll Goldsborough,\* *Easton*; David Seibert,\* *Clear Spring*; Robert Crain,\* *Baltimore*; Chas. A. Councilman,\* *Glyndon*; J. M. Munroe, *Annapolis*; John Hubert, *Baltimore*; W. Lee Cary, *Berlin*.

## COURSES OF STUDY.

There are six four-year courses of study, viz: Agricultural, horticultural, general science, and chemical (B. S.), mechanical engineering (B. S. M. E.), civil engineering (B. S. C. E.), and electrical engineering; two-year courses in agriculture and horticulture; one-year preparatory course, and a ten weeks' winter course in agriculture.

## BOARD OF INSTRUCTION.

R. W. Silvester, M. S., LL. D., *President*; *Mathematics*.

Thomas H. Spence, A. M., V. Pres.; <i>Lang.</i>	F. W. Besley, A. B., M. F., <i>Lect. in For.; Dir. State Bureau of For.</i>
Edgar T. Conley, Capt., U. S. A., <i>Comdt. Cadets.</i>	C. P. Close, M. S., <i>Hort.; State Hort.</i>
H. B. McDonnell, B. S., M. D., <i>Chem.</i>	I. V. Stone, M. S. A., <i>Asst. in Chem. (State work).</i>
W. T. L. Taliaferro, A. B., <i>Agr.</i>	Paul Collins, B. S., <i>Asst. in Chem.</i>
James S. Robinson, <i>Hort. Emeritus.</i>	G. H. Hibberd, B. S., <i>Asst. in Animal Husband.</i>
Samuel S. Buckley, M. S., D. V. S., <i>Vet. Sci.</i>	W. R. Eastman, B. S. A., <i>Asst. in Veg. Path., Bot., Ent. (State work).</i>
T. H. Taliaferro, Ph. D., <i>Phys., Civil Engin.</i>	Frank Cole, B. S., <i>Asst. in Chem. (State work).</i>
F. B. Bomberger, B. S., A. M., <i>Engl., Civics; Libr.</i>	R. B. Deemer, B. S., <i>Asst. in Chem. (State work).</i>
Charles S. Richardson, A. M., <i>Dir. Phys. Culture; Instr. Oratory, (Asst.) Engl.</i>	Alvah J. Norman, B. S. A., <i>Asst. in Ent., Veg. Path. (State work).</i>
J. B. S. Norton, M. S., <i>Veg. Path., Bot.; State Path.</i>	Leonard M. Peairs, M. S., <i>Asst. in Ent., Zool.</i>
T. B. Symons, M. S., <i>Ent., Zool.; State Ent.</i>	Joseph R. Owens, M. D., <i>Registrar, Treas.</i>
Henry T. Harrison, A. M., ( <i>Asst.</i> ) <i>Math.; Prin. Prep. Dept., Sec. to Faculty.</i>	Harry Nalley, M. D., <i>Surgeon.</i>

**Maryland Agricultural Experiment Station, College Park.**

Department of Maryland Agricultural College, under the control of the Board of Trustees.

STATION STAFF.

Harry J. Patterson, B. S., <i>Dir.; Chem.</i>	A. B. Gahan, M. S., <i>Asst Ent.</i>
Jos. R. Owens, M. D., <i>Treas.</i>	C. W. Nash, B. S. A., <i>Asst. Agron.</i>
S. S. Buckley, M. S., D. V. S., <i>Vet.</i>	W. R. Ballard, B. S., <i>Asst. Hort.</i>
J. B. S. Norton, M. S., <i>Bot., Path.</i> ( <i>State work.</i> )	C. L. Opperman, <i>Asst. Poultryman.</i>
T. B. Symons, M. S., <i>Ent. (State work).</i>	Lewis W. Fetzer, Ph. D., <i>Asst. Chem.</i>
C. W. Melick, M. S., <i>Dairy Husb.</i>	L. M. Peairs, M. S., <i>Asst. Ent. (State work).</i>
C. P. Close, M. S., <i>Hort.</i>	A. J. Norman, B. S. A., <i>Asst. Bot.</i> ( <i>State work.</i> )
Nicholas Schmitz, B. S., <i>Agron.</i>	L. B. Broughton, B. S., <i>Asst. Chem.</i>
E. H. Brinkley, <i>Farm Supt.</i>	A. P. Davidson, <i>Clerk, Libr.</i>
Thos. H. White, <i>Gard.</i>	

**Princess Anne Academy for Colored Persons, Princess Anne.**

GOVERNING BOARD.

Board of Trustees: John F. Goucher (*Pres.*), *Baltimore*; David H. Carroll (*V. Pres.*), *Baltimore*; Jos. Lockerman (*Sec.*), *Baltimore*; Alcaeus Hooper (*Treas.*), *Baltimore*; John H. Nutter, *Middletown, Del.*; Chas. W. Baldwin, *Baltimore*; Alfred R. Shockley, *Philadelphia, Pa.*; Chas. H. Evans, *Baltimore*; Benj. F. Bennett, *Baltimore*; Thos. Ireland Elliott, *Baltimore*; George Simms, *Baltimore*; Stewart H. Brown, *Baltimore*; Chas. D. Fenhagen, *Baltimore*; Henry S. Dulaney, *Baltimore*; Herbert S. Wilson, *Upper Fairmount*; Solomon T. Houston, *Salisbury*; John R. Keene, *Baltimore*; E. Walter Giles, *Baltimore*; John W. Brown, *Baltimore*; N. M. Carroll, *Annapolis*; Luther B. Wilson, *Chattanooga, Tenn.*; M. W. Clair, *Washington, D. C.*; Vaughan S. Collins, *Port Deposit.*

COURSES OF STUDY.

A two-year grammar course, a four-year academic, a four-year normal, and industrial courses in domestic science, printing, agriculture, carpentry, joinery, blacksmithing, wheelwrighting, and painting are offered.

BOARD OF INSTRUCTION.

Frank Trigg, A. M., *Principal; English and Geography.*

Daniel J. Pinkett, <i>Math.</i>	Angella Turpeau, A. B., <i>Matron; Engl.</i>
Woodward W. Privott, <i>Blacksm., Wheelwr.</i>	John H. Jones, <i>Farm Foreman.</i>
George T. Coldery, <i>Carpentry and Joinery.</i>	Henry J. Hitch, <i>Market Gard. and Trucking.</i>
N. A. Murray, <i>Agr., Dairying, Phys. Sci.</i>	Samuel S. Taylor, <i>Ed., Latin.</i>
Josephine I. Stevens, <i>Dom. Sci. and Art.</i>	Lillian J. Taylor, <i>Normal Pract., Asst. in Dom. Sci.</i>
	Ellen P. Trigg, <i>Laundry.</i>

## MASSACHUSETTS.

## Massachusetts Agricultural College, Amherst.

## GOVERNING BOARD.

Board of Trustees: Gov. Curtis Guild, jr. (*ex officio* Pres.), Boston; K. L. Butterfield\* (*ex officio*), Amherst; G. H. Martin (*Sec. Board of Education, ex officio*), Boston; J. L. Ellsworth\* (*Sec. Board of Agr., ex officio Sec.*), Boston; N. I. Bowditch, Framingham; Wm. Wheeler, Concord; A. G. Pollard, Lowell; C. A. Gleason (*V. Pres., Auditor*), New Braintree; Frank Garrett, Greenfield; S. C. Damon,\* Lancaster; C. H. Preston,\* Danvers; C. D. Wright, Worcester; M. F. Dickinson, Boston; Wm. H. Bowker,\* Boston; G. H. Ellis, Boston; J. H. Demond, Northampton; E. D. Howe, Marlboro.

## COURSES OF STUDY.

The collegiate course of study requires four years and leads to the degree of B. S. Graduate courses, short winter courses in dairying and bee culture, and a summer school of agriculture are provided.

## BOARD OF INSTRUCTION.

Kenyon L. Butterfield, A. M., *President; Rural Sociology.*

George F. Mills, M. A., *Dean; Head of Div. of Humanities; Lang., Lit.*

Frank A. Waugh, M. S., *Head of Div. of Hort. and Landscape Gard.*

Charles Wellington, PH. D., *Gen. and Agr. Chem.*

Charles H. Fernald, PH. D., *Zool.; Dir. Graduate School.*

William P. Brooks, PH. D., *Coml. Fert.*

James B. Paige, B. S., D. V. S., *Vet. Sci.*

George E. Stone, PH. D., *Bot.*

John E. Ostrander, M. A., C. E., *Math., Civil Engin.*

Henry T. Fernald, PH. D., *Ent.*

George C. Martin, C. E., Capt., U. S. A., *Mil. Sci. and Tactics.*

William R. Hart, A. M., *Agr. Ed.*

Fred C. Sears, M. S., *Pomol.*

Philip B. Hasbrouck, B. S., (*Assoc.*) *Math., (Adjunct) Phys.; Registrar.*

James A. Foord, M. S. A., *Actg. Head Div. of Agr.; Farm Administration.*

Fred C. Kenney, *Treas.*

Percy L. Reynolds, M. D., *Hyg., Phys. Ed.*

Samuel F. Howard, M. S., (*Asst.*) *Chem.*

Clarence E. Gordon, B. S., A. M., (*Asst.*) *Zool.; Curator of Zool. Museum.*

Robt. W. Neal, A. M., (*Asst.*) *Engl.*

George N. Holcomb, A. B., S. T. B., (*Asst.*) *Polit. Sci.*

A. Vincent Osmum, M. S., (*Asst.*) *Bot.*

Edward A. White, B. S., (*Asst.*) *Flor.*

W. P. B. Lockwood, B. S. A., (*Asst.*) *Dairying.*

Robert W. Lyman, B. S., LL. B., *Lect. on Farm Law.*

Frank W. Rane, M. S., *Lect. on For.*

Robt. D. MacLaurin, PH. D., *Lect. on Org. Chem.*

Sidney B. Haskell, B. S., *Instr. Agr.*

Harold F. Tompson, B. S., *Instr. Market Gard.*

Frank M. Gracey, *Instr. Landscape Gard.*

Anderson MacKinnie, *Instr. French.*

Edgar Ashley, *Instr. German.*

A. E. Cance, PH. D., *Instr. Agr. Econ.*

C. R. Duncan, *Instr. Math., Phys.*

L. I. Shaw, M. S., *Instr. Chem.*

Arthur D. Holmes, B. S., *Instr. Chem.*

Ernest C. Fowler, B. S., *Instr. Chem.*

Ray L. Gribben, B. S. A., *Instr. Animal Husb.*

B. F. Jenks, B. S., *Instr. Agr. Ed.*

H. M. Jennison, B. S., *Instr. Bot.*

Chas. R. Green, B. Agr., *Libr.*

Elwin H. Forristall, M. S., *Farm Supt.*

## Massachusetts Agricultural Experiment Station, Amherst.

Department of the Massachusetts Agricultural College, under the control of the  
Board of Trustees.

## STATION STAFF.

Wm. P. Brooks, PH. D., <i>Dir.; Agr.</i>	Robt. D. MacLaurin, PH. D., <i>First Asst. Chem. (Research Div.).</i>
Chas. A. Goessmann, PH. D., LL. D., <i>Honorary Dir.; Expert Consulting Chem.</i>	Carl S. Pomeroy, B. S., PH. B., <i>Asst. Hort.</i>
Jos. B. Lindsey, PH. D., <i>Chem.</i>	Lewell S. Walker, B. S., <i>First Asst. Chem. (Feed and Dairy Div.).</i>
G. E. Stone, PH. D., <i>Bot., Veg. Path.</i>	George H. Chapman, B. S., <i>Asst. Bot.</i>
C. H. Fernald, PH. D., <i>Ent.</i>	J. N. Summers, B. S., <i>Asst. Ent.</i>
J. B. Paige, B. S., D. V. S., <i>Vet.</i>	J. C. Reed, B. S., <i>Asst. Chem.</i>
F. A. Waugh, M. S., <i>Hort.</i>	P. V. Goldsmith, B. S., <i>Asst. Chem.</i>
J. E. Ostrander, M. A., C. E., <i>Mct.</i>	Frederick A. Johnson, B. S., <i>Asst. Ent. (Cranberry Invest.).</i>
H. T. Fernald, PH. D., <i>Assoc. Ent.</i>	Fred C. Kenney, <i>Treas.</i>
Edw. B. Holland, M. S., <i>Assoc. Chem.</i>	C. R. Green, B. AGR., <i>Libr.</i>
Henri D. Haskins, B. S., <i>Chem. (Fert. Control).</i>	Wm. K. Hepburn, <i>Insp. Feed and Dairy Div.</i>
Philip H. Smith, B. S., <i>Chem. (Feed and Dairy Control).</i>	Roy F. Gaskell, <i>Asst. in Animal Nutrition.</i>
F. C. Sears, M. S., <i>Pomol.</i>	Rockwood C. Lindblad, <i>Observer.</i>
Erwin S. Fulton, B. S., <i>First Asst. Agr.</i>	
E. F. Gaskell, B. S., <i>Second Asst. Agr.</i>	

## MICHIGAN.

Michigan State Agricultural College, East Lansing.

## GOVERNING BOARD.

State Board of Agriculture: R. D. Graham (*Pres.*), *Grand Rapids*; A. J. Doherty, *Clare*; I. R. Waterbury, *Highland*; W. H. Wallace, *Bay Port*; Jonathan L. Snyder (*Pres. College, ex officio*), *Agricultural College*; A. P. Bliss, *Saginaw*; Thos. F. Marston, *Bay City*; Gov. Fred M. Warner (*ex officio*), *Lansing*; William J. Oberdorffer, *Stephenson*; A. M. Brown (*Sec.*), *East Lansing*; B. F. Davis (*Treas.*), *Lansing*.

## COURSES OF STUDY.

There are four four-year courses of study, viz: Agricultural, engineering, forestry, and the women's course (B. S.); short courses in general farming and live stock, dairying, creamery management, fruit culture, and cheese making; postgraduate and preparatory courses, and a four weeks' summer school for teachers of agriculture.

## BOARD OF INSTRUCTION.

Jonathan L. Snyder, A. M., PH. D., *President.*

William J. Beal, M. S., PH. D., D. Sc., <i>Bot.; Curator Bot. Museum.</i>	Walter B. Barrows, B. S., <i>Zool., Geol., Physiol.; Curator Gen. Mus.</i>
Herman K. Vedder, C. E., <i>Math.; Civil Engin.</i>	Frank S. Kedzie, M. S., <i>Chem.</i>
Levi R. Taft, M. S., <i>Supt. of Farmers' Insts., State Insp. Orchards and Nurseries.</i>	Leslie M. Hurt, D. V. M., <i>Vet. Sci.</i>
	Chas. E. Marshall, PH. D., <i>Bact., Hyg.</i>
	Robert S. Shaw, B. S. A., <i>Dean Agr. Vet. Sci., Hort., For.</i>



- Frederick W. Fuger, B. S., Capt., U. S. A., *Mil. Sci. and Tactics; Comdt. of Cadets.*
- J. Fred. Baker, B. S., M. F., *For.*
- Jos. A. Jeffery, B. S. AGR., *Soils, Soil Phys., Agron.*
- H. J. Eustace, B. S., *Hort.*
- Chase Newman, (Asst.) *Draw.*
- Arthur R. Sawyer, B. S., E. E., *Phys., Elect. Engin.*
- Thos. C. Blaisdell, PH. D., *Engl. Lit., Mod. Lang.*
- Wilbur O. Hedrick, M. S., *Hist., Polit. Econ.*
- Maude Gilchrist, A. M., *Dean of Women's Dept.*
- Walter H. French, *Agr. Ed.*
- E. Sylvester King, (Asst.) *Engl.*
- Warren Babcock, B. S., (Assoc.) *Math.; Sec. of Faculty.*
- Rufus H. Pettit, B. S. AGR., *Ent.*
- Mrs. Linda E. Landon, *Libr.*
- Chester L. Brewer, *Dir. Phys. Culture.*
- J. B. Dandeno, PH. D., (Asst.) *Bot.*
- H. W. Norton, jr., B. S., (Asst.) *in charge Animal Husb.*
- A. Crosby Anderson, B. S., (Asst.) *in charge Dairy Husb.*
- H. S. Reed, B. S. AGR., (Asst.) *Chem.*
- Jesse J. Myers, B. S., (Asst.) *Zool.*
- E. H. Ryder, M. A., (Asst.) *Hist., Econ.*
- Jas. G. Halpin, B. S. A., (Asst.) *Poultry Husb.*
- Caroline L. Holt, *Instr. Draw.*
- Louise Freyhofer, B. A., *Instr. Music.*
- Thomas Gunson, *Instr. Hort.; Supt. of Grounds.*
- F. H. Sanford, B. S., *Instr. For.*
- F. W. Howe, B. S., A. M., *Instr. Agr.*
- Norma L. Gilchrist, A. B., *Instr. Engl.*
- W. B. Liverance, B. S., *Instr. Dairying.*
- W. J. Wright, B. S., *Clerk to Pres., Editor M. A. C. Record.*
- Carl Gunderson, PH. D., *Instr. Math.*
- Albert E. Jones, B. A., *Instr. Math.*
- Leslie J. Smith, B. S., *Instr. Farm Mech.*
- Wm. E. Lawrence, B. S., *Instr. Bot.*
- Wm. A. Robinson, A. B., S. T. B., *Instr. Engl.*
- P. M. Bauknight, A. M., *Instr. Engl.*
- Kate M. Coad, B. S., *Instr. Dom. Art.*
- Arthur E. Fish, A. B., *Instr. Engl.*
- Ward Giltner, M. S., D. V. M., *Research Asst. in Bact.*
- Walter E. Hawkes, A. B., *Instr. Math.*
- Lee W. Harrington, B. S., *Instr. Zool.*
- Herman Hensel, A. B., *Instr. Engl. and German.*
- William E. Laycock, *Instr. Phys.*
- Sheperd Leffler, A. B., *Instr. Hist. and Econ.*
- Thomas W. Mason, B. S., *Instr. Chem.*
- Charles R. Mann, A. B., A. M., *Instr. Engl.*
- Ward H. Parker, B. S., *Instr. Chem.*
- Mrs. Lillian L. Peppard, *Instr. Dom. Sci.*
- Philip Rosenberg, B. S., *Instr. Math.*
- Geo. D. Shafer, PH. D., *Research Asst. in Ent.*
- H. L. Slobin, PH. D., *Instr. Math.*
- Jacob Warshaw, B. S., *Instr. Chem.*
- M. A. Yothers, B. S., *Instr. Ent.*
- Chas. P. Halligan, B. S., *Instr. Hort.*
- Orestes I. Gregg, B. S., *Instr. Hort.*
- Pearl McDonald, B. S., *Instr. Dom. Sci.*
- Chas. W. Brown, B. S., *Instr. Bact.*
- Arthur J. Clark, B. S., *Instr. Chem.*
- J. F. Darling, A. B., *Instr. Chem.*
- G. A. Heinrich, B. S., *Instr. Math.*
- W. L. Lodge, B. S., M. A., *Instr. Phys.*
- C. W. Chapman, *Instr. Phys.*
- Mrs. Minnie Hendricks, A. M., *Instr. Hist.*
- John C. Paltridge, A. B., *Instr. Engl.*
- Leslie N. Cullom, A. M., *Instr. Engl.*
- Rose M. Taylor, A. B., *Instr. Bot.*
- Florence M. Rounds, B. S., *Instr. Draw.*
- Wm. S. Sayer, B. S., PH. B., *Asst. in Bact.*
- Zae Northrop, B. S., *Instr. Bact.*
- Ruth Carrell, B. S., *Asst. in Bact. and Hyg.*
- Lulu Smith, PH. B., *Asst. in Bact.*
- Ralph S. Hudson, B. S., *Foreman College Farm.*
- Agnes E. Crumb, *Asst. Libr.*



Experiment Station of Michigan State Agricultural College, *East Lansing.*

Department of Michigan State Agricultural College, under the control of the State Board of Agriculture.

#### STATION STAFF.

Robert S. Shaw, B. S. A., <i>Div.</i>	W. S. Sayer, B. S., PH. B., <i>Research Asst. in Bact.</i>
C. E. Marshall, PH. D., <i>V. Dir.; Bact.</i>	S. L. Jodidi, PH. D., <i>Research Asst. in Chem.</i>
L. R. Taft, M. S., <i>Consulting Hort.</i>	G. D. Shafer, PH. D., <i>Research Asst. in Ent.</i>
R. H. Pettit, B. S. AGR., <i>Ent.</i>	C. W. Brown, B. S., <i>Asst. Bact.</i>
A. J. Patten, B. S., <i>Chem.</i>	F. A. Spragg, M. S., <i>Asst. in Farm Crops (Plant Breeding).</i>
H. J. Eustace, B. S., <i>Hort.</i>	Miss Z. Northrop, B. S., <i>Asst. Bact.</i>
J. A. Jeffery, B. S. AGR., <i>Soil Physicist.</i>	Lulu Smith, PH. B., <i>Asst. Bact.</i>
A. M. Brown, A. B., <i>Sec., Treas.</i>	M. A. Yothers, B. S., <i>Asst. Ent.</i>
L. M. Hurt, D. V. M., <i>Consulting Vct.</i>	C. B. Collingwood, M. S., <i>Asst. Chem.</i>
C. P. Halligan, B. S., <i>Asst. Hort.</i>	Mrs. L. E. Landon, <i>Libr.</i>
Otto Rahn, PH. D., <i>Asst. Bact.</i>	Leo M. Geismar, <i>in charge of Substa., Chatham.</i>
A. C. Anderson, B. S., <i>Asst. Dairy Husb.</i>	F. A. Wilken, <i>in charge of Substa., South Haven.</i>
H. W. Norton, jr., B. S., <i>Asst. Animal Husb.</i>	
Ward Giltner, M. S., D. V. M., <i>Research Asst. in Bact.</i>	

#### MINNESOTA.

College of Agriculture of the University of Minnesota, *St. Anthony Park, St. Paul.*

#### GOVERNING BOARD.

Board of Regents: John Lind (*Pres.*), *Minneapolis*; Cyrus Northrop (*ex officio*), *Minneapolis*; Gov. J. A. Johnson (*ex officio*), *St. Paul*; J. W. Olsen (*State Supt. of Public Instr., ex officio*), *Albert Lea*; Thomas Wilson, *St. Paul*; A. E. Rice, *Willmar*; B. F. Nelson, *Minneapolis*; Pierce Butler, *St. Paul*; C. A. Smith, *Minneapolis*; S. M. Owen, *Minneapolis*; W. J. Mayo, *Rochester*; H. B. Hovland, *Duluth*; C. D. Decker (*Sec.*), *Austin*.

#### COURSES OF STUDY.

The college courses require four years for completion and lead to the degrees of B. S. in Agr., B. S. in For., and B. S. in Home Econ. There is also a secondary school of agriculture, with a course requiring three years of six months each for completion, a two-year normal course in home economics, a six weeks' summer school of forestry, a special lecture course continuing for a term of eight weeks for farmers of mature years, a dairy course of four weeks, and a four weeks' school of traction engineering. To secure a dairy certificate the student must have one season's actual practice in a creamery or cheese factory, one of which must follow his work at the dairy school. A summer school for teachers gives instruction in agricultural subjects.

## BOARD OF INSTRUCTION.

The College of Agriculture.

Cyrus Northrop, LL. D., *President of the University.*

John W. Olsen, *Dean.*  
 Samuel B. Green, B. S., *Hort., For.*  
 Harry Snyder, B. S., *Agr. Chem., Soils.*  
 Theophilus L. Haecker, *Dairy Husb.*  
*and Animal Nutrition.*  
 M. H. Reynolds, M. D., V. M., *Vet.*  
*Med. and Surgery.*  
 Andrew Boss, *Agr., Animal Husb.*  
 Frederick L. Washburn, M. A., *Ent.*  
 D. D. Mayne, *Prin. School of Agr.;*  
*Econ.*  
 Fannie C. Boutelle, *Preceptress; Dom.*  
*Econ.*  
 E. M. Freeman, M. S., *Veg. Path., Bot.*  
 John T. Stewart, *Agr. Engin., Phys.*  
 Robert C. Lansing, M. A., (*Asst.*) *Engl.*  
 Henry J. Franklin, PH. D., (*Asst.*)  
*Ent.*  
 Edw. K. Slater, (*Asst.*) *Dairy Husb.*  
 J. A. Vye, *Instr. Farm Acct.*  
 James M. Drew, *Instr. Blacksm., Poul-*  
*try.*  
 Juniata L. Shepperd, M. A., *Instr. Dom.*  
*Sci.*  
 Margaret Blair, *Instr. Dom. Art.*  
 John A. Hummel, B. AGR., (*Asst.*) *Agr.*  
*Chem.*

William Boss, *Farm Structures, Farm*  
*Mech.*  
 Coates P. Bull, B. AGR., (*Asst.*) *Agr.*  
 Arthur G. Ruggles, B. S. A., M. A.,  
*Instr. Ent.*  
 D. A. Gaumnitz, M. S. IN AGR., (*Asst.*)  
*Animal Husb.*  
 A. D. Wilson, B. S. IN AGR., *Asst. in*  
*Agr.; Dir. Farmers' Insts.*  
 C. C. Lipp, D. V. M., (*Asst.*) *Physiol.,*  
*Vet. Med.*  
 Thos. P. Cooper, B. S. IN AGR., *Agr.*  
 E. G. Cheyney, A. B., (*Asst.*) *For.*  
 Le Roy Cady, B. S. IN AGR., *Instr.*  
*Hort.*  
 W. L. Beebe, D. V. M., *Instr. Bact.*  
 Wm. H. Frazier, B. S., *Instr. Agr.*  
*Chem., Soils.*  
 A. D. Wilhoit, M. A., *Instr. Agr. Chem.,*  
*Soils.*  
 H. B. Roe, B. S. IN E., *Instr. Math.*  
 C. A. Pyle, B. S., D. V. M., *Instr. Physiol.*  
 Albert R. Kohler, B. S. A., *Asst. in*  
*Hort.*  
 Geo. P. Grout, B. S., *Asst. in Dairy*  
*Husb.*  
 Anna M. Smith, *Libr.*

The School of Agriculture.

Cyrus Northrop, LL. D., *President.*

John W. Olsen, *Dean.*  
 D. D. Mayne, *Prin.; Econ., Practi-*  
*cums.*  
 Samuel B. Green, B. S., *Hort., For.*  
 J. A. Vye, *Acct.; Sec., Treas.*  
 Harry Snyder, B. S., *Agr. Chem., Soils.*  
 Theophilus L. Haecker, *Dairy Husb.*  
*and Animal Nutrition.*  
 M. H. Reynolds, M. D., V. M., *Compar-*  
*ative Physiol., Vet. Sci.*  
 James M. Drew, *Registrar; Blacksm.,*  
*Poultry.*  
 Andrew Boss, *Agr., Animal Husb.*  
 William Boss, *Carpentry, Power Mach.*  
 Juniata L. Shepperd, M. A., *Instr.*  
*Cooking, Laundering, Home Econ.*  
 Margaret Blair, *Instr. Sew., Household*  
*Art.*

Frederick L. Washburn, M. A. *Zool.,*  
*Ent.*  
 W. L. Oswald, M. S., *Agr. Bot.*  
 Karl A. Machetanz, LL. B., *Dir. Gym-*  
*nasium; Hist.*  
 Alvah M. Bull, *Draw., Farm Buildings.*  
 R. C. Lansing, M. A., (*Asst.*) *Engl.*  
 Ethel E. Bush, B. A., *Engl.*  
 Gertrude V. Collins, *Farm Acct.*  
 Edith Staples, *Instr. Dom. Art.*  
 Agnes Erickson, *Asst. in Chem.*  
 Martha B. Moorehead, M. D., *Lect. in*  
*Dom. Hyg.*  
 Anna M. Smith, *Libr.*  
 Fannie C. Boutelle, *Preceptress, Social*  
*Culture.*  
 D. B. Howell, PH. B., *Farm Math.*  
 A. L. Ewing, M. S., *Instr. Agr. Phys.*

- Edw. Sigerfoos, PH. B., LL. B., Capt.,  
U. S. A., *Mil. Sci. and Tactics.*  
John A. Hummel, B. AGR., (*Asst.*) *Agr. Chem.*  
Mary L. Bull, *Asst. in Cooking, Laundrying.*  
Grace B. Whitridge, *Phys. Culture.*  
Coates P. Bull, B. AGR., (*Asst.*) *Agr.*  
Le Roy Cady, B. S. IN AGR., *Asst. in Hort.*  
A. G. Ruggles, B. S. A., M. A., *Instr. Ent.*  
A. R. Kohler, B. S. A., *Asst. in Hort.*  
H. B. Roe, B. S. IN E., *Instr. Math.*  
C. A. Pyle, B. S., D. V. M., *Instr. Physiol.*  
M. Estelle Cook, *Asst. in Engl.*  
Mary L. Coffin, *Music.*  
C. C. Lipp, D. V. M., (*Asst.*) *Comparative Physiol.*  
D. A. Gaumnitz, M. S. IN AGR., (*Asst.*) *Animal Husb.*  
Thos. P. Cooper, B. S. IN AGR., *Asst. in Agr.*  
A. D. Wilson, B. S. IN AGR., *Asst. in Agr.*  
E. G. Cheyney, A. B., (*Asst.*) *For.*  
L. B. Bassett, *Farm Supt.*  
H. B. White, B. S. IN AGR., *Asst. in Carpentry.*

**Agricultural Experiment Station of the University of Minnesota,  
St. Anthony Park, St. Paul.**

Department of University of Minnesota, under the control of the Board of Regents.

STATION STAFF.

- J. W. Olsen, *Dir.*  
S. B. Green, B. S., *Hort., For.*  
Harry Snyder, B. S., *Chem., Soils.*  
T. L. Haecker, *Dairying, Animal Nutrition.*  
M. H. Reynolds, M. D., V. M., *Vet.*  
Andrew Boss, *Agr., Animal Husb.*  
F. L. Washburn, M. A., *Ent.*  
E. M. Freeman, M. S., *Bot., Vcg. Path.*  
J. A. Hummel, B. AGR., *Asst. Chem.*  
C. C. Lipp, D. V. M., *Asst. Vet.*  
C. P. Bull, B. AGR., *Asst. Agr.*  
D. A. Gaumnitz, B. AGR., *Asst. Animal Husb.*  
A. W. Wilson, B. S. IN AGR., *Asst. Agr.*  
T. P. Cooper, B. S. IN AGR., *Asst. Agr.*  
Le R. Cady, B. S. IN AGR., *Asst. Hort.*  
E. G. Cheyney, B. A., *Asst. For.*  
L. B. Bassett, *Asst. Agr.*  
A. D. Wilhoit, M. A., *Asst. in Soils.*  
H. J. Franklin, PH. D., *Asst. Ent.*  
A. G. Ruggles, M. A., *Asst. Ent.*  
W. H. Frazier, B. S., *Asst. Chem.*  
C. L. Edmonds, *Asst. Animal Husb.*  
W. D. Handschen, *Asst. Animal Husb.*  
A. R. Kohler, B. S. A., *Asst. Hort.*  
J. A. Vye, *Sec.*  
Wm. Robertson, B. S., *Supt. Substa., Crookston.*  
A. J. McGuire, B. AGR., *Supt. Substa., Grand Rapids.*  
Charles Haralson, *Supt. Fruit Breeding Farm, Excelsior.*

MISSISSIPPI.

**Mississippi Agricultural and Mechanical College, Agricultural College.<sup>a</sup>**

GOVERNING BOARD.

Board of Trustees: Gov. E. F. Noel (*ex officio Pres.*), Jackson; A. J. Moore (*Sec.*), *Agricultural College*; G. R. Edwards (*Treas.*), Jackson; P. W. Maer, Columbus; T. L. Wainwright, *Stonewall*; A. S. Meharg, *Grenada*; J. C. Bradford, *Biloxi*; W. A. Dickson, *Centerville*; J. N. Powers (*ex officio*), Jackson; A. T. Dent, *Macon*; J. W. Norment, *Starkville*; J. C. Hardy (*Pres. of College*), *Agricultural College*; Douglas Robinson, *Sidon*; J. M. Coen, *Mizpah*; R. L. Tucker, *Chulahoma*; Z. D. Davis, *Jackson*; J. M. White, *West Point*.

<sup>a</sup> Telegraph address, *Starkville*. Express and post-office address, *Agricultural College*. Freight address, *A. and M. College Station*.

## COURSES OF STUDY.

There are four four-year courses, viz: Agricultural, engineering (including mechanical, electrical, civil, and mining engineering), textile, and industrial pedagogy (B. S.); postgraduate courses, a preparatory course, practical working boys' course, two-year courses in agriculture, mechanical engineering, electrical engineering, and textile industry, respectively, a ten weeks' course in agriculture, and a summer school for teachers.

## BOARD OF INSTRUCTION.

John C. Hardy, A. M. LL. D., *President*.

Wm. H. Magruder, M. A., *V. Pres.; Engl.*

Washington L. Hutchinson, M. S., *Dir. School of Agr.*

Alexander B. McKay, B. S., *Hort.*

John C. Herbert, M. S., *Hist., Civics.*

Wm. F. Hand, Ph. D., *Chem., (State Chem).*

Edward R. Lloyd, M. S., *Agr.; in charge of Farmers' Insts. and Ext. Work.*

David C. Hull, M. S., *Indus. Pedag.*

Wm. N. Logan, Ph. D., *Geol., Min.*

G. S. Goodale, Capt., U. S. A., *Mil. Sci. and Tactics.*

Josephus S. Moore, M. S., *Dairy Husb.*

R. P. Hibbard, Ph. D., *Bact.*

Peter P. Garner, B. S., *Prin. Prep. Dept.*

Archibald Smith, *Animal Husb.*

Geo. L. Clothier, M. S., M. F., *Bot., For.*

James V. Bowen, Ph. B., *Foreign Lang.*

Henry L. Noel, B. S., M. D., *Anat., Physiol.; Surgeon.*

Fitz-John Weddell, B. S., *(Assoc.) Engl.*

James S. Wallace, B. S., *(Asst.) Math.*

Christopher R. Stark, B. S., *(Assoc.) Math.*

Wm. R. Perkins, M. S., *Agron.*

Dennis C. Mooring, M. S., *(Asst.) Hort.*

F. M. Darnall, B. A., *(Asst.) Engl.*

Jack P. Montgomery, Ph. D., *(Assoc.) Chem.*

R. W. Harned, B. S. AGR., *(Actg.) Zool.*

Andrew M. Maxwell, *Instr. Bookkeeping.*

Albert L. Love, B. S., *Instr. Engl.*

Thos. F. Jackson, *Instr. Prep. Dept.*

F. D. Mellen, A. B., *Instr. Engl.*

Frank C. Bolton, B. S., *Instr. Phys.; Asst. Comdt.*

James E. McKell, B. S., *Instr. Prep. Dept.*

Matthew L. Freeman, B. S., *Instr. Draw.*

J. P. Kerr, *Instr. Poultry Husb.*

V. W. Bragg, *Instr. Wood Shop, Manual Training.*

Hugh Critz, B. S., *Asst. in Math.*

James R. Ricks, M. S., *Asst. in Agron.*

Irwin D. Sessums, B. S., *Asst. in Chem.*

Howard S. Chilton, B. S., *Asst. in Chem.*

J. E. Jacob, B. S., *Asst. in Chem.*

Wilkinson Stark, B. S., *Asst. in Chem.*

Perley B. Monosmith, *Florist.*

T. W. Davis, B. S., *Libr.*

W. W. Routten, *Dir. of Band.*

C. I. Bray, M. S., *Dairy Herdsman.*

John C. Kean, *Herdsman Animal Husb. Dept.*

1. Mississippi Agricultural Experiment Station, *Agricultural College.*
2. McNeill Branch Experiment Station, *McNeill.*
3. Delta Branch Experiment Station, *Stoneville.*
4. Holly Springs Branch Experiment Station, *Holly Springs.*



Department of Mississippi Agricultural and Mechanical College, under the control of the Board of Trustees.

## STATION STAFF.

Mississippi Agricultural Experiment Station, *Agricultural College*.

W. L. Hutchinson, M. S., <i>Dir.</i>	R. P. Hibbard, PH. D., <i>Bact.</i>
J. A. McLean, B. A., B. S. A., <i>Animal Husb.</i>	G. L. Clothier, M. S., M. F., <i>For., Bot.</i>
Wm. R. Perkins, M. S., <i>Agron.</i>	J. P. Kerr, <i>Poultryman.</i>
J. S. Moore, M. S., <i>Dairy Husb.</i>	R. W. Harned, B. S., <i>Ent.</i>
A. B. McKay, B. S., <i>Hort.</i>	A. J. Moore, B. S., <i>Treas.</i>

McNeill Branch Experiment Station, *McNeill*.

W. L. Hutchinson, M. S., <i>Dir.</i>	John Phares, <i>Foreman of Farm.</i>
E. B. Ferris, M. S., <i>Asst. Dir. in charge.</i>	

Delta Branch Experiment Station, *Stoneville*.

W. L. Hutchinson, M. S., <i>Dir.</i>	W. W. Fox, B. S., <i>Foreman of Farm.</i>
J. W. Fox, M. S., <i>Asst. Dir. in charge.</i>	

Holly Springs Branch Experiment Station, *Holly Springs*.

W. L. Hutchinson, M. S., <i>Dir.</i>	H. S. Nichols, <i>Foreman of Farm.</i>
C. T. Ames, B. S., <i>Asst. Dir. in charge.</i>	

**Alcorn Agricultural and Mechanical College, *Alcorn*.**

## GOVERNING BOARD.

Board of Trustees: Gov. E. F. Noel (*Pres. ex officio*), *Jackson*; Hon. Geo. R. Edwards (*Treas. ex officio*), *Jackson*; Jas. McClure (*Sec.*), *Fayette*; J. N. Powers (*State Supt. of Education*), *Jackson*; E. N. Scudder, *Vicksburg*; J. G. Spencer, *Port Gibson*; J. T. Savage, *Jackson*; O. T. Howard, *Insmore*; W. F. Benbrook, *Natchez*; J. W. Chambers, *Laurel*; Isaac D. Borders, *Holly Springs*; E. A. Howell, *Canton*; E. J. Adams, *Pass Christian*; T. J. Bailey, *Jackson*.

## COURSES OF STUDY.

The courses of study are as follows: Three-year industrial, four-year scientific (B. S.), two-year preparatory, and three-year primary.

## BOARD OF INSTRUCTION.

L. J. Rowan, B. S., *President*.

J. R. Ramsey, B. S., <i>Math.</i>	J. T. Hall, B. S., ( <i>Asst.</i> ) <i>Engl.</i>
R. A. Gordon, M. D., <i>Chem., Phys.</i>	A. D. Snodgrass, Chaplain; ( <i>Asst.</i> ) <i>Nat. Sci.</i>
J. H. Moseley, B. S., <i>Gen. Hist., Moral Sci., Phys. Geog., Met.</i>	Alice G. Laws, <i>Sew.</i>
E. H. Patton, B. S., <i>Agr.</i>	Pauline Jackson, <i>Matron; Laundering.</i>
H. T. Tanner, <i>Hort.</i>	James McClure, <i>Sec., Treas.</i>
J. C. Bullen, PH. B., <i>Engl.</i>	Mrs. Leonora E. Aray, <i>Dom. Sci.</i>
J. H. Powell, B. S., ( <i>Asst.</i> ) <i>Math.</i>	Evangeline M. Webb, <i>Nurse Training.</i>
P. S. Bowles, B. S., ( <i>Asst.</i> ) <i>Agr.</i>	

## MISSOURI.

College of Agriculture and Mechanic Arts of the University of Missouri,  
Columbia.

## GOVERNING BOARD.

Board of Curators: C. B. Faris (*Pres.*), *Caruthersville*; J. V. C. Karnes (*V. Pres.*), *Kansas City*; J. G. Babb (*Sec.*), *Columbia*; R. B. Price (*Treas.*), *Columbia*; Campbell Wells,\* *Platte City*; B. H. Bonfoey,\* *Unionville*; J. C. Parrish, *Vandalia*; D. R. Francis, *St. Louis*; P. E. Burton, *Joplin*; S. L. Baysinger, *Rolla*; Geo. B. Dorsey,\* *Columbia*.

## COURSES OF STUDY.

In the School of Agriculture the four-year course leads to the degree of B. S. in agriculture. There are also three short courses of two months in plant production, animal husbandry, and dairying, and a summer school for teachers.

## BOARD OF INSTRUCTION.

Albert Ross Hill, PH. D., *President of the University; Educational Psychology.*

Henry J. Waters, B. S. A., *Dean.*

Paul Schweitzer, PH. D., LL. D., *Agr. Chem. Emeritus.*

Edward A. Allen, LITT. D., *Engl., Lit.*

John W. Connaway, D. V. S., M. D., *Vet. Sci.*

John C. Whitten, M. S., PH. D., *Hort.*

Frederick B. Mumford, M. S., *Animal Husb.*

John M. Stedman, B. S. C., *Ent.*

Wm. G. Brown, B. S., PH. D., *Chem.*

Curtis F. Marbut, B. S., M. A., *Geol., Soil Survey.*

George Lefevre, PH. D., *Zool.*

M. S. Wildman, PH. D., (*Asst.*) *Econ.*

Merritt F. Miller, M. S. A., *Agron.*

Oscar M. Stewart, PH. D., *Phys.*

Joseph Frazier, Capt., U. S. A., *Instr. Mil. Sci.; Comdt. of Cadets.*

Henry M. Belden, PH. D., *Engl. Lit.*

Clarence H. Eckles, B. AGR., M. S., *Dairy Husb.*

Sidney Calvert, B. S. C., A. M., *Org. Chem.*

George Reeder,<sup>a</sup> *Dir. Weather Bureau; Climat.*

P. F. Trowbridge, PH. D., *Agr. Chem.*

C. Stuart Gager, PH. D., *Bot.*

Winterton C. Curtis, PH. D., *Zool.*

Walter L. Howard, M. S., PH. D., *Hort.*

Herman Schlundt, PH. D., *Chem.*

Edna D. Day, PH. D., (*Asst.*) *in charge of Home Econ.*

R. H. Shaw, B. S., (*Asst.*) *Dairy Husb.*

Geo. M. Reed, PH. D., (*Asst.*) *Bot.*

S. M. Jordan, *Ext. Work in Agr.*

Herbert M. Reese, PH. D., (*Asst.*) *Phys.*

C. A. Willson, B. S., *Instr. Animal Husb.*

Louise Stanley, B. S., M. A., *Instr. Home Econ.*

Harold D. Hughes, M. S., *Instr. Agron.*

Lee S. Backus, D. V. M., *Instr. Vet. Sci.*

Marion S. Bowen, *Instr. Shopwork.*

Marlow A. Shaw, PH. D., *Instr. Engl.*

W. H. Chandler, M. S., *Asst. in Hort.*

E. A. Trowbridge, B. S. A., *Instr. Animal Husb.*

John M. Evvard, B. S., *Asst. to the Dean.*

C. W. Rine, B. S. AGR., *Asst. in Animal Husb.*

A. E. Perkins, B. S., *Asst. in Dairying.*

L. G. Rinkle, B. S., *Asst. in Dairy Husb.*

E. A. Cockefair, B. S., *Asst. in Bot.*

Ernest E. Morlan, A. M., *Asst. in Chem.*

L. F. Shackell, *Asst. in Agr. Chem.*

Claude B. Hutchison, B. S. A., *Asst. in Agron.*

<sup>a</sup> In the service of the U. S. Department of Agriculture.

Jos. R. Keithley, B. S., *Asst. in Dairying.*

O. E. Reed, *Asst. in Dairying.*

Harley E. Howe, B. S., *Asst. in Phys.*

Henry P. Rusk, B. S. A., *Asst. in Animal Husb.*

Frank H. Demaree, B. S. A., *Asst. in Agron.*

Chas. K. Francis, A. M., *Asst. in Agr. Chem.*

Francis W. Woodman, B. S., *Asst. in Agr. Chem.*

W. T. Bovie, A. M., *Asst. in Bot.*

Irvin Switzler, *Registrar.*

Arthur Rhys, B. S., *Herdsmen.*

### Missouri Agricultural College Experiment Station, Columbia.

Department of the College of Agriculture and Mechanic Arts of the University of Missouri, under the control of the Board of Curators.

#### STATION STAFF.

Henry J. Waters, B. S. A., *Dir.*

Paul Schweitzer, PH. D., LL. D., *Agr. Chem. Emeritus.*

J. C. Whitten, M. S., PH. D., *Hort.*

J. M. Stedman, B. S. C., *Ent.*

J. W. Connaway, D. V. S., M. D., *Vet.*

F. B. Mumford, M. S., *Animal Husb.*

C. H. Eckles, B. Agr., M. S., *Dairying.*

M. F. Miller, M. S. A., *Agron.*

C. F. Marbut, B. S., A. M., *Soil Survey.*

Geo. Reeder,<sup>a</sup> *Dir. Weather Bureau.*

P. F. Trowbridge, PH. D., *Chem.*

W. L. Howard, M. S., PH. D., *Asst. Hort.*

C. S. Gager, PH. D., *Bot.*

G. M. Reed, PH. D., *Asst. Bot.*

R. H. Shaw, B. S., *Asst. Dairyman.*

W. H. Chandler, M. S., *Asst. Hort.*

E. A. Trowbridge, B. S. A., *Asst. Animal Husb.*

John M. Evvard, B. S., *Asst. to Dir.*

C. A. Willson, B. S., *Asst. Animal Husb.*

A. E. Perkins, B. S., *Asst. Dairy Chem.*

H. D. Hughes, B. S., *Asst. Agron.*

L. S. Backus, D. V. S., *Asst. Vet.*

L. G. Rinkle, B. S., *Asst. Dairyman.*

C. R. Moulton, B. S., *Asst. Chem.*

C. B. Hutchison, B. S. A., *Asst. Agron.*

L. F. Shackell, *Asst. Agr. Chem.*

L. D. Haigh, A. M., *Asst. Chem.*

Francis W. Woodman, B. S., *Research Asst. Chem.*

Charles K. Francis, A. M., *Research Asst. Chem.*

Frank H. Demaree, B. S. A., *Asst. Agron.*

W. T. Bovie, A. M., *Asst. Bot.*

C. W. Rine, B. S. Agr., *Asst. Animal Husb.*

H. P. Rusk, B. S. A., *Asst. Animal Husb.*

Arthur Rhys, *Herdsmen.*

John Schnabel, *Gard.*

J. G. Babb, M. A., *Sec.*

R. B. Price, B. S., *Treas.*

### Missouri State Fruit Experiment Station, Mountain Grove.

#### GOVERNING BOARD.

Trustees: C. B. McAfee (*Pres.*), *Springfield*; Joe Knoerle (*Sec.*), *West Plains*; W. C. Paynter (*Treas.*), *Koshkonong.*

#### STATION STAFF.

Paul Evans, *Dir.*

Frank Horsfall, B. S., *Asst. Hort.*

F. M. Rolfs, M. S., *Veg. Path.*

E. P. Taylor, B. S., *Ent.*

F. W. Faurot, B. S., *Asst. in Invest. of Plant Diseases.*

A. M. Swartwout, *Field Asst.*

<sup>a</sup> In the service of the U. S. Department of Agriculture.

Lincoln Institute, *Jefferson City.*

## GOVERNING BOARD.

Board of Regents: D. C. McClung (*Pres.*), *Jefferson City*; A. Ross Hill (*v. Pres.*), *Columbia*; S. B. Cook (*Treas.*), *Jefferson City*; H. A. Gass (*State Supt. of Public Schools, ex officio*), *Jefferson City*; E. S. Wilson, *Mexico*; N. C. Burch (*Sec.*), *Jefferson City*; Hugh K. Rea, *Carrollton*; Richard Smith, *Fulton*; E. S. Emery, *Ely*.

## COURSES OF STUDY.

This institution has the following departments: College (four-year course leading to degree of B. A.), college preparatory, normal (two and four year courses), normal preparatory (three years), industrial, agricultural, and domestic. There is also a summer school of seven weeks.

## BOARD OF INSTRUCTION.

Benjamin Franklin Allen, A. M., LL. D., *President*; *Ethics, Psychology, and Pedagogy*.

Grant S. Murray, A. B., *Phys. Sci.*

Jonas Moten, M. A., *Math.*

John W. Damel, M. Ph., *Biol., Agr.*

Mrs. Josephine S. Yates, M. A., *Engl., Draw.*

Mrs. Anna J. Cooper, A. M., *Lat., Greek.*

A. T. Walker, B. S., *Asst. in Pedag.*

E. W. Houston, A. B., *Asst. in Math.*

J. P. Faulkner, B. S., *Asst. in Math.*

Wm. H. Harrison, *Asst. in Engl.*

Romeo A. West, B. S. D., *Sec., Libr.*

Florence G. Pigeon, B. S. D., *Instrumental Music.*

Carrie M. Carney, *Vocal Music.*

James P. English, *Farm Supt.*

Mary E. Grimshaw, *Instr. Sew.*

R. Mabel Moorman, *Instr. Dom. Art.*

Sarah A. E. Potts, *Instr. Dom. Sci.*

Mrs. S. C. De Nellotz, *Instr. Cooking.*

Mrs. J. R. McDowell, *Matron for Boys.*

Mrs. Delia Adams, *Matron for Girls; in charge of Laundry.*

Mrs. Cornelia T. Rutledge, *in charge of Dining Hall.*

## MONTANA.

Montana Agricultural College, *Bozeman.*

## GOVERNING BOARD.

Executive Board: Walter S. Hartman \* (*Pres.*), *Bozeman*; George Cox \* (*Sec. and Treas.*), *Bozeman*; J. H. Baker,\* *Bozeman*; John M. Robinson,\* *Bozeman*; E. B. Lamme,\* *Bozeman*; E. Broox Martin,\* *Bozeman*.

## COURSES OF STUDY.

The following courses of study are given: Four-year courses in civil, electrical, and mechanical engineering, domestic science, chemistry, biology, history-literature, mathematics-physics, agronomy, animal husbandry, dairying, horticulture, and forestry, leading to the degrees of B. C. E., B. M. E., B. E. E., B. S., and B. S. A., respectively; four-year course in art and music; four-year preparatory and three-year agricultural courses: two year course in pharmacy; one-year course in domestic science, and short winter courses in agriculture and dairying.



## BOARD OF INSTRUCTION.

James M. Hamilton, M. S., *President; Philosophy and Economics.*

Mrs. F. E. Marshall, *Art.*  
 Wm. F. Brewer, A. M., *Engl., Lat.*  
 Aaron H. Currier, A. M., *French, German.*  
 Lilla A. Harkins, M. S., *Dom. Sci.*  
 Robert A. Cooley, B. S., *Ent.*  
 Wm. D. Tallman, B. S., *Math.*  
 Frederick B. Linfield, B. S. A., *Agr.*  
 Wm. M. Cobleigh, A. M., *Chem.*  
 E. Tappan Tannatt, B. S., *Civil Engin.*  
 Wm. J. Elliott, B. S. A., *Dairying.*  
 Alfred Atkinson, B. S. A., *Agron.*  
 Roy W. Fisher, B. S., *Hort.*  
 R. W. Clark, B. Agr., *Animal Indus.*  
 F. S. Cooley, B. S., *Supt. of Farmers' Insts.*  
 Edmund Burke, (*Asst.*) *Chem.*  
 Deane B. Swingle, M. S., (*Asst.*) *Bot.*  
 M. Herrick Spaulding, B. S., (*Asst.*) *Zool.*

Robert D. Kneale, B. S. C. E., (*Asst.*) *Civil Engin.*  
 Mary A. Cantwell, *Prin. Prep. Dept.; Instr. Engl., Math.*  
 Helen R. Brewer, A. B., *Instr. Hist., Lat.*  
 Mrs. Mabel Kinney Hall, Ph. B., *Public Speaking, Mod. Lang.*  
 Florence Ballinger, *Instr. Sew.*  
 Frank W. Ham, M. S., *Instr. Chem.*  
 F. C. Snow, B. S., *Asst. in Civil Engin.*  
 Frieda Bull, B. S., *Asst. in Math.*  
 Lucile Brewer, *Asst. in Dom. Sci.*  
 Wm. F. Schoppe, B. S. A., *Instr. Poultry Husb.*  
 Mrs. Edna Gage, *Asst. in Art.*  
 George W. Hey, M. B., *Instr. Violin.*  
 Mrs. Mary K. Winter, *Libr.*

**Montana Agricultural Experiment Station, Bozeman.**

Department of the Montana Agricultural College, under the control of the Executive Board.

## STATION STAFF.

F. B. Linfield, B. S. A., *Dir.; Agr.; in charge of Farmers' Insts.*  
 R. A. Cooley, B. S., *Ent.*  
 R. W. Fisher, B. S., *Hort.*  
 W. J. Elliott, B. S. A., *Dairyman.*  
 Alfred Atkinson, B. S. A., *Agron.*  
 E. Tappan Tannatt, B. S., *Eugin.*  
 R. W. Clark, B. Agr., *Animal Indus.*  
 Edmund Burke, B. S., *Chem.*

H. O. Buckman, M. S. A., *Asst. Agron.*  
 Jos. B. Nelson, *Supt. Dry Farm Work.*  
 D. B. Swingle, M. S., *Asst. Bot.*  
 R. D. Kneale, B. S. C. E., *Asst. Engin.*  
 R. M. Pinckney, B. Sc., A. M., *Asst. Chem.*  
 W. F. Schoppe, B. S. A., *Asst. in Poultry Husb.*

## NEBRASKA.

The Industrial College of the University of Nebraska, Lincoln.

## GOVERNING BOARD.

Regents of the University: Chas. S. Allen (*Pres.*), Lincoln; Wm. G. Whitmore,\* Valley; Fred H. Abbott,\* Aurora; Victor G. Lyford,\* Falls City; Chas. B. Anderson, Crete; Jas. S. Dales (*Sec.*), Lincoln; George Coupland, Elgin.

## COURSES OF STUDY.

The groups (courses) of study are as follows, each ordinarily requiring four years for completion and leading to the degree of B. S.: General scientific group; general agricultural group; general home economics group; and tech-

nical groups—technical agriculture, civil engineering, electrical engineering, mechanical engineering, premedical, and technical forestry. A three-year course in elementary agriculture, a nine weeks' course in agriculture, and a six weeks' summer session are also provided in the school of agriculture; and a two-year course in the school of mechanic arts. The teachers' college offers a one-year course in agriculture and in home economics and manual training.

BOARD OF INSTRUCTION.<sup>a</sup>

Samuel Avery, PH. D., *Acting Chancellor of the University; Head Chemist; Director of Chemical Laboratory.*

- |   |  |
|---|--|
| Charles E. Bessey, PH. D., LL. D.,<br><i>Dean of Indus. College; Head Bot.</i>              | Frank J. Phillips, M. S. F., <i>For.</i>                           |
| Edgar A. Burnett, B. S., <i>Assoc. Dean of Indus. College; in charge of Farmers' Insts.</i> | Paul H. Grummann, A. M., <i>Germanic Lang.</i>                     |
| Lucius A. Sherman, PH. D., <i>Dean of Graduate School; Head Engl. Lang. and Lit.</i>        | James L. Le Rossignol, PH. D., <i>Polit. Econ., Finance.</i>       |
| Erwin H. Barbour, PH. D., <i>Head Geol.; State Geol.; Curator of Univ. Museum.</i>          | Rosa Bouton, A. M., <i>Home Econ.</i>                              |
| Ellery W. Davis, PH. D., <i>Head Math.</i>  | Annette E. Philbrick, B. S., ( <i>Assoc.</i> ) <i>Home Econ.</i>   |
| Lawrence Bruner, B. S., <i>Head Ent.; Actg. State Ent.</i>                                  | James H. Gain, M. D. C., ( <i>Assoc.</i> ) <i>Animal Path.</i>     |
| Laurence Fossler, A. M., <i>Head Germanic Lang. and Lit.</i>                                | C. W. Pugsley, B. S., ( <i>Assoc.</i> ) <i>Animal Husb.</i>        |
| Goodwin D. Swezey, A. M., <i>Astron.</i>  | Leon W. Chase, B. S., ( <i>Assoc.</i> ) <i>Farm Mech.</i>          |
| W. G. Langworthy Taylor, A. B., LL. B., <i>Head Polit. Econ. and Commerce.</i>              | George A. Loveland, B. S., LL. B., ( <i>Asst.</i> ) <i>Met.</i>    |
| Albert T. Peters, D. V. M., <i>Head Animal Path.</i>  | Edward G. Montgomery, B. S., ( <i>Assoc.</i> ) <i>Field Crops.</i> |
| Albert E. Davisson, A. B., <i>Prin. School of Agr.; Head Agr. Ed.</i>                       | Myron H. Swenk, M. A., ( <i>Adjunct</i> ) <i>Ent.</i>              |
| Howard R. Smith, B. S., <i>Animal Husb.</i>   | Val Keyser, B. Sc., <i>Asst. Supt. of Farmers' Insts.</i>          |
| Clara Conklin, A. M., <i>Romance Lang. and Lit.</i>   | Julia E. Loughridge, A. B., ( <i>Adjunct</i> ) <i>Math.</i>        |
| Prosser H. Frye, A. B., <i>Rhet.</i>  | Ernest M. Little, B. S., ( <i>Adjunct</i> ) <i>Dairying.</i>       |
| Archibald L. Haecker, B. S. A., <i>Dairy Husb.</i>  | Willard H. Hein, A. M., ( <i>Adjunct</i> ) <i>Agr. Bot.</i>        |
| Rollins A. Emerson, B. S., <i>Hort.</i>   | Edna C. Noble, B. L., <i>in charge of Agr. Libr.</i>               |
| Miller M. Fogg, A. M., <i>Rhet.</i>   | Mabel R. Hays, A. B., <i>Instr. Engl., School of Agr.</i>          |
| John G. Workizer, U. S. A., <i>Mil. Sci. and Tactics.</i>                                   | Robert S. Trumbull, A. M., <i>Instr. Agr. Chem.</i>                |
| Clarence A. Skinner, PH. D., <i>Phys.</i>   | Robert C. Ashby, B. S. IN AGR., <i>Instr. Animal Husb.</i>         |
| G. E. Condra, PH. D., <i>Geog., Econ. Geol.</i>   | Percy B. Barker, A. B., <i>Instr. Soils.</i>                       |
| Edwin M. Wilcox, PH. D., <i>Agr. Bot.</i>   | Raymond J. Pool, A. M., <i>Instr. Bot.</i>                         |
| R. E. Stone, M. S., ( <i>Adjunct</i> ) <i>Agr. Bot.</i>                                     | Grace G. Denny, A. B., <i>Asst. in Home Econ.</i>                  |
| Frederick J. Alway, PH. D., <i>Agr. Chem.</i>   |  |
| William C. Webster, PH. D., <i>Commerce.</i>  |  |

<sup>a</sup> Includes only instructors in subjects directly relating to agriculture. Many other members of the university faculty give instruction to students pursuing the course leading to the degree of B. S.

# Agricultural Experiment Station of Nebraska, *Lincoln.*

Department of the University of Nebraska, under the control of the Board of Regents.

## STATION STAFF.

E. A. Burnett,<sup>a</sup> B. S., *Dir.*  
 H. R. Smith, B. S., *Animal Husb.*  
 A. T. Peters, D. V. M., *Animal Path.*  
 E. M. Wilcox, PH. D., *Agr., Bot.*  
 Frederick J. Alway, PH. D., *Chem.*  
 A. L. Haecker, B. S. A., *Dairy Husb.*  
 Lawrence Bruner, B. S., *Ent.*  
 E. G. Montgomery, B. S., *Field Crops.*  
 F. J. Phillips, M. S. F., *For.*  
 E. H. Barbour, PH. D., *Geol.*  
 Geo. R. Chatburn, A. M., *Highway Engin.*  
 R. A. Emerson, B. S., *Hort.*  
 O. V. P. Stout, C. E., *Irrig. and Drainage Engin.*  
 Geo. A. Loveland, B. S., LL. B., *Met.*  
 W. P. Snyder, A. B., M. S., *Supt. North Platte Substa.*

W. W. Burr, *Asst. in Soils and Crops, North Platte Substa.*  
 J. H. Gain, M. D. C., *Assoc. Animal Path.*  
 C. W. Pugsley, B. S., *Asst. Animal Husb.*  
 E. M. Little, B. S., *Asst. Dairy Husb.*  
 Robt. S. Trumbull, A. M., *Asst. in Agr. Chem.*  
 W. H. Hein, A. M., *Asst. Agr. Bot.*  
 Percy B. Barker, A. B., *Asst. in Soils.*  
 Myron H. Swenk, A. M., *Asst. Ent., (Asst. State Ent.).*  
 Miss V. W. Pool, B. S., M. A., *Asst. in Agr. Bot.*  
 Robert F. Howard, *Asst. Hort.*  
 S. W. Perin, *Farm Supt.*  
 J. S. Dales, PH. M., *Financial Sec.*

## NEVADA.

College of Agriculture of the University of Nevada, *Reno.*

## GOVERNING BOARD.

Regents of University: O. J. Smith (*Chair.*), *Reno*; Geo. H. Taylor (*Sec.*), *Reno*; C. B. Henderson, *Elko*; John Sunderland, jr., *Reno*; C. R. Lewers, *Reno*; J. E. Souchereau, *Verdi*.

## COURSES OF STUDY.

The regular course requires four years for completion and leads to the degree of B. S. Short courses in agriculture, dairying, domestic science, and assaying are given during the months of January, February, and March of each year for the benefit of ranchers and prospectors. A four-year preparatory course in agriculture, domestic science, and mechanic arts is provided.

## BOARD OF INSTRUCTION.

Joseph E. Stubbs, M. A., D. D., LL. D., *President of the University, Director of the Experiment Station, and in charge of Farmers' Institutes.*  
 W. S. Tangier Smith, PH. D., *Geol. Min.*  
 Herbert W. Hill, B. L., PH. M., *Engl. Lang. and Lit.*  
 P. B. Kennedy, PH. D., *Bot., Hort., For.*  
 Henry Thurtell, B. S., *Mech., Math.*  
 Gordon H. True, B. S., *Animal Husb., Agr.*  
 Robert Lewers, *Polit. Econ., Logic.*  
 Robert M. Brambilla, Capt., U. S. A., *Mil. Sci. and Tactics.*  
 Samuel B. Doten, B. A., *Ent.*  
 Peter Frandsen, A. M., *Biol.*  
 Sanford C. Dinsmore, B. S., (*Asst.*) *Agr. Chem.*  
 Kate Bardenwerper, (*Asst.*) *Dom. Sci.*

<sup>a</sup> In full charge of North Platte Substation.

Ralph S. Minor, PH. D., <i>Phys.</i>	Maxwell Adams, PH. D., <i>Chem.</i>
C. A. Gough, B. S., <i>Instr. Mech. Arts.</i>	Winfred B. Mack, D. V. M., <i>Bact., Vet. Sci.</i>
Katherine Riegelhuth, B. A., <i>Instr. Engl. and German.</i>	Jos. D. Layman, B. L., <i>Libr.</i>
Katherine Lewers, (Asst.) <i>Free-Hand Draw.</i>	Alice E. Armstrong, <i>Asst. Libr.</i>
	Chas. Le R. Brown, <i>Asst. in Biol.</i>

### Nevada Agricultural Experiment Station, Reno.

Department of University of Nevada, under the control of the Board of Regents.

#### STATION STAFF.

Joseph E. Stubbs, M. A., D. D., LL. D., <i>Dir.</i>	Sanford C. Dinsmore, B. S., <i>Chem.</i>
P. B. Kennedy, PH. D., <i>Bot., Hort. For.</i>	James E. Church, PH. D., <i>Cooperative Observer in Climat. and Met.</i>
Peter Frandsen, <sup>a</sup> A. M., <i>Consulting Zool.</i>	W. B. Mack, D. V. M., <i>Vet. Bact.</i>
G. H. True, B. S., <i>Agr., Animal Husb.</i>	Theodore W. Clark, <i>Farm Supt.</i>
S. B. Doten, B. A., <i>Ent.</i>	Mrs. T. W. Cowgill, M. A., <i>Libr.</i>
	Katherine Lewers, <i>Photog. Lab.</i>

### NEW HAMPSHIRE.

New Hampshire College of Agriculture and the Mechanic Arts, Durham.

#### GOVERNING BOARD.

Board of Trustees: Gov. Charles M. Floyd (*ex officio*), Concord; W. M. Parker (*Treas.*), Manchester; W. D. Gibbs\* (*ex officio*), Durham; C. W. Stone\* (*Pres.*), East Andover; Lucien Thompson (*Sec.*), Durham; J. G. Talant,\* Pembroke; Warren Brown,\* Hampton Falls; R. W. Pillsbury, Londonderry; R. M. Scammon, Stratham; Walter Drew, Colebrook; Nahum J. Bachelder,\* East Andover; Gordon Woodbury, Manchester; Edward H. Wason, Nashua; Geo. W. Currier, Nashua.

#### COURSES OF STUDY.

There are five four-year courses of study, viz: Agricultural, mechanical engineering, electrical engineering, chemical engineering, and a general course (open to women), all leading to the degree of B. S.; two-year course and ten weeks' course in agriculture, and a ten weeks' course in dairying.

#### BOARD OF INSTRUCTION.

William D. Gibbs, D. Sc., *President.*

Charles H. Pettee, A. M., C. E., <i>Dean; Math., Civil Engin.</i>	E. Dwight Sanderson, B. S. A., <i>Zool., Ent.</i>
Clarence W. Scott, A. M., <i>Hist., Polit. Econ.</i>	Arthur F. Nesbit, B. S., A. M., <i>Phys.</i>
Fred W. Morse, M. S., <i>Org. Chem.</i>	William E. Hunt, B. S., Lieut., U. S. A., <i>Mil. Sci. and Tactics.</i>
Charles L. Parsons, B. S., <i>Inorg. Chem.</i>	Richard Whoriskey, jr., A. B., <i>Mod. Lang.</i>
Frederick W. Taylor, B. S. A., <i>Agron.</i>	

\* In the service of the U. S. Department of Agriculture.



Charles Brooks, M. S., PH. D., *Bot.*  
 Frederick W. Putnam, B. S., *Draw.*  
*and Design.*  
 Bethel S. Pickett, M. S., *Hort.*  
 Ernest R. Groves, A. B., B. D., *Engl.,*  
*Philos.*  
 Fred Rasmusson, B. S. A., (*Assoc.*)  
*Dairying.*  
 William H. Pew, B. S. A., (*Assoc.*)  
*Animal Husb.*  
 Charles James, F. I. C., (*Asst.*) *Inorg.*  
*Chem.*  
 Frank R. Brown, B. S., *Instr. Machine*  
*Work.*  
 David L. Randall, PH. D., *Instr. Chem.*  
 Ray A. Spencer, A. B., *Instr. Engl.,*  
*Mod. Lang.*

Harry E. Ingham, B. S., *Instr. Wood*  
*Work.*  
 Thomas J. Laton, B. S., *Instr. Draw.*  
 William M. Barrows, M. S., *Instr. Zool.*  
 C. Floyd Jackson, B. S., M. A., *Instr.*  
*Ent.*  
 Isaac M. Lewis, M. A., *Instr. Bot.*  
 Jasper F. Eastman, B. S., *Asst. in*  
*Agron.*  
 William H. Wicks, M. S. A., *Asst. in*  
*Hort.*  
 John C. McNitt, B. S. A., *Asst. in An-*  
*imal Husb.; Herdsman.*  
 Mabel E. Townsend, A. B., *Registrar.*  
 Gertrude Whittimore, PH. B., *Libr.*  
 Charlotte A. Thompson, *Asst. Libr.*

### New Hampshire College Agricultural Experiment Station, *Durham.*

Department of New Hampshire College of Agriculture and the Mechanic Arts,  
 under the control of the Board of Trustees.

#### STATION STAFF.

E. Dwight Sanderson, B. S. A., *Dir.;*  
*Ent.*  
 W. F. Morse, M. S., *V. Dir.; Chem.*  
 F. W. Taylor, B. S. A., *Agr.*  
 Fred Rasmusson, B. S. A., *Dairyman.*  
 W. H. Pew, B. S. Agr., *Animal Husb.*  
 Charles Brooks, M. S., PH. D., *Bot.*  
 B. S. Pickett, M. S., *Hort.*

B. E. Curry, M. S., *Assoc. Chem.*  
 Jasper F. Eastman, B. S., *Asst. Agr.*  
 C. F. Jackson, B. S., M. A., *Asst. Ent.*  
 W. H. Wicks, M. S. A., *Asst. Hort.*  
 I. M. Lewis, M. A., *Asst. Bot.*  
 David Lumsden, *Asst. in Flor.*  
 J. C. McNitt, B. S. A., *Herdsman.*

### NEW JERSEY.

Rutgers Scientific School, the New Jersey College for the Benefit of Agri-  
 culture and the Mechanic Arts, *New Brunswick.*

#### GOVERNING BOARD.

Board of Trustees: Gov. J. F. Fort (*ex officio*), *Trenton*; W. S. Gummere  
 (*Chief Justice of the State*), *Newark*; R. H. McCarter (*Attorney-General*),  
*Newark*; W. H. S. Demarest\* (*Pres.*), *New Brunswick*; H. L. Janeway, *New*  
*Brunswick*; David Bingham, *East Orange*; T. G. Bergen, *Brooklyn, N. Y.*;  
 Frederick Frelinghuysen, *Newark*; James Neilson,\* *New Brunswick*; Roderick  
 Terry, *New York City*; E. B. Coe, *New York City*; J. B. Drury, *New Brunswick*;  
 James Le Fevre, *Somerville*; F. J. Collier, *Hudson, N. Y.*; Paul Cook,\* *Troy,*  
*N. Y.*; G. D. W. Vroom, *Trenton*; J. B. Kirkpatrick, *New Brunswick*; W. H.  
 Leupp,\* *New Brunswick*; Peter Donald, *New York City*; J. P. Searle (*Sec.*),  
*New Brunswick*; W. F. Wyckoff, *Brooklyn, N. Y.*; J. W. Herbert, jr.,\* *Helmetta*;  
 W. H. Vredenburgh, *Freehold*; F. M. Voorhees, *Elizabeth*; J. I. Vance, *Newark*;  
 W. H. Van Steenburgh, *New York City*; A. T. Clearwater, *Kingston, N. Y.*;  
 L. L. Kellogg, *New York City*; H. N. Fuller, *Albany, N. Y.*; J. R. Duryee, *New*  
*York City*; L. H. Schenck, *Neshanic*; P. M. Brett, *New York City*; C. L. Edgar,  
*Boston, Mass.*; W. E. Florance, *New Brunswick*; L. L. Taylor, *Canandaigua,*  
*N. Y.*; I. S. Upson (*Treas.*), *New Brunswick.*

## COURSES OF STUDY.

There are eight distinct four-year courses of study, viz: General science, agriculture, civil engineering, mechanical engineering, chemistry, electricity, biology, and clay working and ceramics (B. S.); a Latin scientific course (B. Litt.); a two-year course in clay working and ceramics, and courses of twelve weeks each in general agriculture, dairy farming, and fruit growing and market gardening.

## BOARD OF INSTRUCTION.

W. H. S. Demarest, A. M., D. D., *President.*

- |   |  |
|---|--|
| Francis Cuyler Van Dyck, PH. D.,<br><i>Dean; Phys., Expt. Mech.</i>                 | Walter R. Newton, PH. D., <i>German<br/>Lang. and Lit.</i>                         |
| Edward A. Bowser, C. E., LL. D.,<br><i>Math. and Engin. Emeritus.</i>               | George H. Payson, D. D., <i>Ethics, Evi-<br/>dences of Christianity.</i>           |
| Rev. Charles E. Hart, D. D., <i>Ethics,<br/>Evidences of Christianity Emeritus.</i> | Ralph G. Wright, PH. D., <i>Chem.</i>  |
| Austin Scott, PH. D., LL. D., <i>Hist.,<br/>Polit. Sci.</i>                         | R. C. H. Heck, M. E., <i>Mech. Engin.</i>  |
| Louis Bevier, jr., PH. D., <i>Greek Lang.<br/>and Lit.</i>                          | Cullen W. Parmelee, B. S., <i>Clay Work-<br/>ing and Ceramics.</i>                 |
| Alfred A. Titsworth, C. E., SC. D.,<br><i>Graphics, Civil Engin.</i>                | Frank F. Thompson, E. E., <i>Phys.</i>   |
| Julius Nelson, PH. D., <i>Biol.</i>   | M. T. Scudder, A. M., <i>Pedag.</i>  |
| Byron D. Halsted, D. SC., <i>Bot., Hort.</i>  | William E. Breazeale, M. S., ( <i>Assoc.</i> )<br><i>Math.</i>                     |
| John B. Smith, D. SC., <i>Ent.</i>  | Richard Morris, M. S., PH. D., ( <i>Assoc.</i> )<br><i>Math.</i>                   |
| Edward B. Voorhees, D. SC., <i>Agr.;<br/>Supt. of College Farm.</i>                 | Albert C. de Regt, M. S., ( <i>Assoc.</i> )<br><i>Chem.</i>                        |
| John C. Van Dyke, L. H. D., <i>Hist. of<br/>Art.</i>                                | Chas. H. Whitman, PH. D., ( <i>Assoc.</i> )<br><i>Engl.</i>                        |
| Robert W. Prentiss, M. S., <i>Math.,<br/>Astron.</i>                                | Jacob. G. Lipman, PH. D., ( <i>Assoc.</i> )<br><i>Agr.</i>                         |
| Eliot R. Payson, PH. D., <i>Hist., Art of<br/>Teaching, German.</i>                 | Edmond W. Billetdoux, A. M., ( <i>Assoc.</i> )<br><i>Romance Lang.</i>             |
| Edward L. Stevenson, PH. D., <i>Hist.</i>   | R. O. Smith, PH. D., <i>Chem.</i>  |
| Rev. Henry Du Bois Mulford, M. A.,<br>D. D., <i>Engl. Lang. and Lit.</i>            | K. C. Davis, PH. D., ( <i>Assoc.</i> ) <i>Agr.;</i><br><i>Prin. School of Agr.</i> |
| William H. Kirk, PH. D., <i>Lat. Lang.<br/>and Lit.</i>                             | Edward L. Barbour, B. O., M. E.,<br><i>Instr. Elocution.</i>                       |
| J. Volney Lewis, B. E., S. B., <i>Geol.,<br/>Min.</i>                               | Fred H. Dodge, B. A., <i>Instr. Phys.<br/>Training; Dir. Gymnasium.</i>            |
| Edwin B. Davis, B. L., <i>Romance Lang.</i>   | Frank R. Pratt, B. SC., <i>Instr. Math.,<br/>Graphics.</i>                         |
| Rev. William I. Chamberlain, PH. D.,<br><i>Logic and Mental Philos.</i>             | Frederick C. Minkler, B. S. A., <i>Instr.<br/>Animal Husb.</i>                     |
| Ralph B. Parrott, Capt., U. S. A., <i>Mil.<br/>Sci. and Tactics.</i>                | Albert R. Johnson, B. SC., <i>Instr. Math.,<br/>Graphics.</i>                      |
| Irving S. Upson, M. A., <i>Registrar, Sec.<br/>of Faculty.</i>                      |  |

**New Jersey Agricultural College Experiment Station, New Brunswick.**

Department of Rutgers College, under the control of the Board of Trustees.

**STATION STAFF.**

Edward B. Voorhees, D. Sc., <i>Dir.</i>	Earle J. Owen, M. S., <i>Asst. Hort.</i>
I. S. Upson, M. A., <i>Chief Clerk.</i>	J. B. Smith, Sc. D., <i>Ent.</i>
Julius Nelson, Ph. D., <i>Biol.</i>	J. G. Lipman, Ph. D., <i>Soil Chem., Bact.</i>
B. D. Halsted, D. Sc., <i>Bot., Hort.</i>	Percy E. Brown, B. S., <i>Asst. Chem.</i>
Nahum D. Shore, B. S., <i>Asst. in Plant Breeding.</i>	Irving L. Owen, B. Sc., <i>Asst. Chem.</i>

**New Jersey State Agricultural Experiment Station, New Brunswick.**

At Rutgers College.

**GOVERNING BOARD.**

Board of Managers: Gov. J. F. Fort, *Trenton*; W. H. S. Demarest, *New Brunswick*; Edward B. Voorhees, *New Brunswick*; Ephraim T. Gill, *Haddonfield*; Daniel W. Horner, *Merchantville*; John E. Darnell, *Masonville*; David D. Denise (*Pres.*), *Freehold*; James Neilson, *New Brunswick*; Samuel B. Ketcham (*V. Pres.*), *Pennington*; C. H. Cook, *Trenton*; Ogden Woodruff, *Elizabeth*; Abram C. Holdrum, *Westwood*; Henry Marelli, *Paterson*; George E. De Camp, *Roseland*; Cyrus B. Crane, *Caldwell*; George Dorer, *East Orange*; Jos. B. Ward, *Lyons Farms*; John Hudson, *Jersey City*; Henry Bell, *Union Hill*; H. A. Gaede, *Hoboken*.

**STATION STAFF.**

Edward B. Voorhees, Sc. D., <i>Dir.</i>	Maurice A. Blake, B. Sc., <i>Hort.</i>
Irving S. Upson, M. A., <i>Sec., Treas.</i>	Arthur J. Farley, B. S., <i>Asst. Hort., Market Gard.</i>
Charles S. Cathcart, M. Sc., <i>Chem.</i>	F. C. Minkler, B. S. A., <i>Animal Husb.</i>
Vincent J. Carberry, <i>Asst. Chem.</i>	Walter W. Shute, <i>Farm Foreman.</i>
Clarence L. Pfersch, B. Sc., <i>Asst. Chem.</i>	D. Manley Jobbins, <i>Field and Greenhouse Asst.</i>
L. H. Williamson, <i>Sampler and Asst.</i>	
John B. Smith, Sc. D., <i>Ent.</i>	

**NEW MEXICO.****New Mexico College of Agriculture and Mechanic Arts, Agricultural College.****GOVERNING BOARD.**

Board of Regents: R. E. McBride (*Pres.*), *Las Cruces*; J. M. Webster, *Hillsboro*; Hiram Hadley, *Las Cruces*; R. R. Larkin, *Las Vegas*; Vincent B. May (*Sec. and Treas.*), *Las Cruces*. Advisory Members: Gov. George Curry, *Santa Fe*; J. E. Clark (*Supt. Public Instr.*), *Santa Fe*.

**COURSES OF STUDY.**

There are six four-year courses of study, viz: Agricultural, mechanical engineering, civil engineering, electrical engineering, household economics, and a general or scientific course (B. S.); graduate courses, two-year courses in agriculture and horticulture and in practical mechanics; four-year preparatory course; one-year courses in English and English-Spanish stenography; two-year course in commerce; and short winter courses in agriculture and household economics.

## BOARD OF INSTRUCTION.

W. E. Garrison, PH. D., *President of the College; Political Economy.*

Luther Foster, M. S. A., <i>Dean of Agr.</i>	Singleton R. Mitchell, B. S., <i>First Asst. in Chem.</i>
Clarence T. Hagerty, M. S., <i>Math., Astron.</i>	A. P. Bjerregaard, B. S., <i>Second Asst. in Chem.</i>
Elmer O. Wooton, A. M., <i>Biol., Geol.</i>	John A. Anderson, <i>Asst. Registrar; Sten., Typew.</i>
John D. Tinsley, B. S., <i>Phys.; Supt. Farmers' Insts. and Cooperative Expts.</i>	Lucy M. Lewis, B. L. S., <i>Libr.; Asst. in Engl.</i>
John R. Macarthur, PH. D., <i>Engl., Hist.</i>	W. F. Schaphorst, B. S., ( <i>Assoc.</i> ) <i>Mech. Engin., Draw.</i>
R. Fred Hare, M. S., <i>Chem.</i>	Arthur Watkins, <i>Vocal and Instrumental Music.</i>
Fabian Garcia, M. S. A., <i>Hort.</i>	Frank Stockton, B. S., <i>Asst. in Phys.</i>
Burton P. Fleming, B. S., M. E., <i>Irrig. Engin.</i>	Jesse E. Mundell, B. S. A., <i>Asst. in Hort.</i>
J. O. Miller, B. S., <i>Registrar; Sten., Typew.</i>	Paul C. Standley, B. S., <i>Asst. in Biol.</i>
P. E. McClenahan, PH. B., <i>Prin. Prep. Dept.</i>	H. H. Simpson, B. S., <i>Asst. in Animal Husb.</i>
G. E. Lain, M. A., <i>Prin. Sten. Dept.</i>	Wm. G. Hummel, B. S., <i>Asst. in Agron.</i>
Caroline W. Daniels, A. M., ( <i>Assoc.</i> ) <i>Engl.; Dean of Women.</i>	R. M. Wilcox, <i>Asst. in Engl.</i>
Margaret H. Haggart, B. S., <i>Household Econ.</i>	Josephine Morton, <i>Asst. in Math.; Asst. Libr.</i>
Merritt L. Hoblit, A. B., <i>Spanish, Lat.</i>	W. L. Powers, B. S., <i>Asst. in Shop Work.</i>
J. R. Burkey, C. E., <i>Asst. in Math.</i>	
Florence J. Foster, B. S., ( <i>Assoc.</i> ) <i>Household Econ.</i>	

**Agricultural Experiment Station of New Mexico, Agricultural College.**

Department of New Mexico College of Agriculture and Mechanic Arts, under the control of the Board of Regents.

## STATION STAFF.

Luther Foster, M. S. A., <i>Dir.</i>	Frank Stockton, B. S., <i>Asst. in Soil Phys.</i>
E. O. Wooton, A. M., <i>Bot.</i>	H. H. Simpson, B. S., <i>Asst. in Animal Husb.</i>
J. D. Tinsley, B. S., <i>V. Dir.; Soil Phys., Met.</i>	W. G. Hummel, B. S., <i>Asst. in Agron.</i>
Fabian Garcia, M. S. A., <i>Hort.</i>	J. E. Mundell, B. S. A., <i>Asst. in Hort.</i>
R. F. Hare, M. S., <i>Chem.</i>	A. P. Bjerregaard, B. S., <i>Second Asst. Chem.</i>
B. P. Fleming, B. S., M. E., <i>Irrig. Engin.</i>	Jay B. Stoneking, M. S., <i>Asst. in Irrig.</i>
S. R. Mitchell, B. S., <i>First Asst. Chem.</i>	J. O. Miller, B. S., <i>Registrar.</i>
Paul C. Standley, B. S., <i>Asst. in Bot.</i>	J. A. Anderson, <i>Asst. Registrar.</i>



## NEW YORK.

## New York Agricultural Experiment Station, Geneva.

## GOVERNING BOARD.

Board of Control: Thos. B. Wilson (*Pres.*), *Halls Corners*; Stephen H. Hammond, *Geneva*; W. O'Hanlon (*Sec. and Treas.*), *Geneva*; Gov. Charles E. Hughes, *Albany*; Comr. Chas. A. Wieting, *Albany*; Alfred G. Lewis, *Geneva*; Edgar G. Dusenbury, *Portville*; Irving Rouse, *Rochester*; Lyman P. Haviland, *Camden*.

## STATION STAFF.

Whitman H. Jordan, D. Sc., LL. D., <i>Dir.</i>	Arthur W. Clark, B. S., <i>Asst. Chem.</i>
Geo. W. Churchill, <i>Agr.; Supt. Labor.</i>	Anton R. Rose, B. S., <i>Asst. Chem.</i>
William P. Wheeler, <i>Animal Indus.</i>	Otto McCreary, <i>Asst. Chem.</i>
H. A. Harding, M. S., <i>Bact.</i>	Jas. T. Cusick, B. S., <i>Asst. Chem.</i>
Martin J. Prucha, Ph. B., <i>Asst. Bact.</i>	George A. Smith, <i>Dairy Expert.</i>
James K. Wilson, B. S., <i>Asst. Bact.</i>	Frank H. Hall, B. S., <i>Editor and Libr.</i>
Fred C. Stewart, M. S., <i>Bot.</i>	Percival J. Parrott, A. M., <i>Ent.</i>
George T. French, B. S., <i>Asst. Bot.</i>	Harold E. Hodgkiss, B. S., <i>Asst. Ent.</i>
J. G. Grossenbacher, A. B., Ph. B., <i>Asst. Bot.</i>	W. J. Schoene, B. Agr., <i>Asst. Ent.</i>
Lucius L. Van Slyke, Ph. D., <i>Chem.</i>	Ulysses P. Hedrick, M. S., <i>Hort.</i>
A. W. Bosworth, B. S., <i>Assoc. Chem.</i>	Richard Wellington, B. S., <i>Asst. Hort.</i>
E. L. Baker, B. S., <i>Asst. Chem.</i>	M. J. Dorsey, B. S., <i>Asst. Hort.</i>
Morgan P. Sweeney, M. A., <i>Asst. Chem.</i>	W. H. Alderman, B. S. A., <i>Asst. Hort.</i>
	Orrin M. Taylor, <i>Foreman in Hort.</i>
	F. A. Sirrine, <sup>a</sup> M. S., <i>Special Agt.</i>

## New York State College of Agriculture at Cornell University, Ithaca.

## GOVERNING BOARD.

Board of Trustees of the University: *Ex officio*—Jacob Gould Schurman\* (*Pres. of Univ.*), *Ithaca*; Governor, Lieutenant-Governor, Speaker of the Assembly, Commissioner of Education, Commissioner of Agriculture, *Albany*; President of State Agricultural Society, *Albany*; Librarian of the Cornell Library, *Ithaca*; Charles E. Cornell, *Ithaca*; Henry B. Lord, *Ithaca*; Andrew D. White, *Ithaca*; Andrew Carnegie, *Pittsburg, Pa.*; R. H. Treman,\* *Ithaca*; Harry L. Taylor, *Buffalo*; Hiram W. Sibley, *Triangle Building, Rochester*; Stewart L. Woodford, *18 Wall street, New York City*; Walter C. Kerr, *10 Bridge street, New York City*; Henry R. Ickelheimer, *Box 2854, New York City*; Chas. S. Shepard, *New Haven, N. Y.*; R. B. Williams, *Ithaca*; Mynderse Van Cleef, *Ithaca*; Frank H. Hiscock, *Syracuse*; C. E. Treman, *Ithaca*; Chas. H. Blood, *Ithaca*; Henry W. Sackett, *154 Nassau street, New York City*; Ruth Putnam, *care of G. P. Putnam's Sons, 29 West Twenty-third street, New York City*; John H. Barr, *Syracuse*; Robert T. Morris, *616 Madison avenue, New York City*; Henry H. Westinghouse, *111 Broadway, New York City*; Geo. C. Boldt, *Waldorf-Astoria, New York City*; Emmons L. Williams\* (*Sec.-Treas.*), *Ithaca*; Charles D. Bostwick (*Asst. Sec.-Treas.*), *Ithaca*; F. E. Dawley, *Fayetteville*; Jas. H. Edwards, *42 Broadway, New York City*; J. T. Newman, *Ithaca*; Wm. H. French, *Chicago, Ill.*; Albert H. Sewell, *Walton*; Emerson McMillin, *New York City*.

<sup>a</sup> Riverhead, N. Y.

## COURSES OF STUDY.

The college offers a four-year course leading to the degree of bachelor of science in agriculture, and postgraduate courses leading to advanced degrees. The following opportunities are also offered: General agriculture special work; nature-study special course, two years; one-year special course in poultry husbandry; winter courses of eleven weeks in agriculture, poultry husbandry, horticulture, dairy industry, and home economics; ten weeks' summer preparatory course; reading courses for farmers and farmers' wives; and nature-study correspondence work.

## BOARD OF INSTRUCTION.

Jacob Gould Schurman, A. M., D. Sc., LL. D., *President of the University.*

Liberty H. Bailey,\* M. S., LL. D., *Dir. College Agr., Dean Faculty.*

Isaac P. Roberts, M. AGR., *Agr. Emeritus.*

John H. Comstock,\* B. S., *Ent., Gen. Invertebrate Zool.*

Henry H. Wing,\* M. S. AGR., *Animal Husb.*

John Craig, M. S. AGR., *Hort.*

T. Lyttleton Lyon, PH. D., *Soil Invest.*

Herbert J. Webber, M. A., PH. D., *Expt. Plant Breeding.*

John L. Stone, B. AGR., *Farm Pract.*

James E. Rice, B. S. AGR., *Poultry Husb.*

Benj. M. Duggar, M. S., PH. D., *Plant Physiol.*

George W. Cavanaugh, B. S., *Agr. Chem.*

George N. Lauman, B. S. A., *Rural Econ.*

Mark V. Slingerland, B. S. AGR., *(Asst.) Econ. Ent.*

Alexander D. MacGillivray, PH. D., *(Asst.) Ent. and Invertebrate Zool.*

Wm. A. Riley, PH. D., *(Asst.) Ent.*

Herbert H. Whetzel, A. M., *(Asst.) Plant Path.*

Elmer O. Fippin, B. S. AGR., *(Asst.) Soils.*

George F. Warren, M. S. A., PH. D., *(Asst.) Farm Crops.*

William A. Stocking, jr., M. S. A., *(Asst.) Dairy Bact.*

James G. Needham, PH. D., *(Asst.) Limnology.*

Lowell B. Judson, A. B., B. S., *(Asst.) Hort.*

Charles S. Wilson, A. B., M. S. A., *(Asst.) Pomol.*

Merritt W. Harper, M. S., *(Asst.) Animal Husb.*

Bryant Fleming, B. S. A., *(Asst.) Rural Art.*

Wm. C. Baker, B. S. A., *(Asst.) Draw.*

Chas. H. Tuck, A. B., *(Asst.) Ext. Teaching.*

Charles A. Publow, B. A., M. D., *(Asst.) Dairy Indus.*

James A. Bizzell, PH. D., *(Asst.) Soil Invest.*

Clarence A. Rogers, M. S. A., *(Asst.) Poultry Husb.*

Paul J. White, A. B., M. S. A., *(Asst.) Farm Crops.*

Howard W. Riley, M. E., *Instr. Farm Mech.*

Harold E. Ross, B. S. A., *Instr. Dairy Indus.*

Charles C. Hedges, B. A., B. S., *Instr. Agr. Chem.*

Lewis Knudson, B. S. A., *Instr. Plant Physiol.*

Donald Reddick, A. B., *Instr. Plant Path.*

George A. Crabb, B. S. A., *Instr. Soils.*

Edward R. Minns, B. S. A., *Instr. Farm Pract.; Asst. Supt. of College Farms.*

Leon D. Batchelor, B. S., *Instr. Hort.*

George W. Tailby, jr., B. S. A., *Instr. Animal Husb.; Stockman.*

Elmer S. Savage, B. S. A., *Instr. Animal Husb.*

E. S. Guthrie, B. S. A., *Instr. Butter Making.*

Milton P. Jones, B. S. A., *Instr. Ext. Work.*

George E. Burnap, *Instr. Rural Art.*  
 John W. Spencer, *Agt. in Ext. Work.*  
 Alice G. McCloskey, B. A., *Supervisor Nature Study.*  
 Martha Van Rensselaer, *Supervisor Farmers' Wives' Reading Course; Lect. in Home Econ.*  
 Mrs. Anna B. Comstock, B. S., *Lect. in Nature Study.*  
 Wilford M. Wilson,<sup>a</sup> M. D., *Lect. in Met.*  
 Flora Rose, B. S., *Lect. in Home Econ.*  
 Hugh C. Troy, B. S. A., *Asst. in Dairy Lab.*  
 Walter W. Hall, *Asst. in Cheese Making.*  
 Webster E. Griffith, *Asst. in Butter Making.*  
 Harvey L. Ayres, *Supt. Dairy Manufactures.*  
 Charles H. Van Auken, *Asst. in Animal Husb.*  
 Allan Ferguson, A. B., *Asst. in Cheese Making.*

Minnie Jenkins, B. S. A., *Asst. in Dairy Indus.*  
 Ada E. Georgia, *Asst. in Nature Study.*  
 Clara Nixon, *Asst. in Poultry Husb.*  
 James C. Bradley, M. S., *Asst. in Ent.*  
 Marshall B. Cummings, M. S., *Asst. in Hort.*  
 Lewis J. Cross, A. B., *Asst. in Agr. Chem.*  
 Leonard Haseman, A. M., *Asst. in Ent.*  
 M. M. McCool, B. S. A., *Asst. in Plant Physiol.*  
 Mortier F. Barrus, A. B., *Asst. in Plant Path.*  
 Scott H. Perky, B. S. A., *Research Asst. in Rural Econ.*  
 George W. Tailby, *Foreman of Farms.*  
 Charles E. Hunn, *Gard.*  
 Henry Jackson Moore, *Gard. Hort. Dept.*  
 Walter G. Krum, *Supt. Poultry Dept.*  
 Andrew J. Lamoureux, *Libr.*  
 Herbert W. Teeter, *Supt. Plant Breeding Gard.*

### Cornell University Agricultural Experiment Station, Ithaca.

Department of New York State College of Agriculture at Cornell University,  
 under the control of the Board of Trustees of Cornell University.

#### STATION STAFF.

L. H. Bailey, M. S., LL. D., *Dir.*  
 J. H. Comstock, B. S., *Ent.*  
 H. H. Wing, M. S. AGR., *Animal Husb.*  
 John Craig, M. S. AGR., *Hort.*  
 T. L. Lyon, PH. D., *Soil Invest.*  
 H. J. Webber, M. A., PH. D., *Plant Breeding.*  
 B. M. Duggar, M. S., PH. D., *Plant Physiol.*  
 John L. Stone, B. AGR., *Farm Pract.*  
 J. E. Rice, B. S. AGR., *Poultry Husb.*  
 Mark V. Slingerland, B. S. AGR., *Ent.*  
 G. W. Cavanaugh, B. S., *Chem.*  
 E. O. Fippin, B. S. AGR., *Soils.*  
 W. A. Stocking, jr., M. S. A., *Dairy Bact.*  
 H. H. Whetzel, A. B., *Plant Path.*  
 G. F. Warren, M. S. A., PH. D., *Farm Crops.*  
 L. B. Judson, A. B., B. S., *Hort.*  
 C. S. Wilson, A. B., M. S. A., *Pomol.*  
 M. W. Harper, M. S., *Animal Husb.*

G. W. Tailby, jr., B. S. A., *Animal Husb.*  
 Charles F. Clark, B. S., *Agron.*  
 J. A. Bizzell, PH. D., *Soil Invest.*  
 C. A. Publow, B. A., M. D., *Dairy Indus.*  
 Cyrus R. Crosby, A. B., *Ent.*  
 C. A. Rogers, M. S. A., *Poultry Husb.*  
 P. J. White, A. B., M. S. A., *Farm Crops.*  
 Donald Reddick, A. B., *Plant Path.*  
 E. R. Minns, B. S. A., *Farm Pract.*  
 G. A. Crabb, B. S. A., *Soils.*  
 Fred J. Pritchard, B. S., *Asst. in Plant Breeding.*  
 Harry H. Love, M. A., *Asst. in Plant Breeding.*  
 Eugene P. Humbert, M. S. A., *Asst. in Plant Breeding.*  
 James O. Morgan, M. S. A., *Asst. in Soil Invest.*  
 Harold J. Conn., PH. B., *Asst. in Soil Invest.*

<sup>a</sup> Detailed by Weather Bureau, U. S. Department of Agriculture.

## NORTH CAROLINA.

The North Carolina College of Agriculture and Mechanic Arts, *West Raleigh*.

## GOVERNING BOARD.

Board of Trustees: R. H. Ricks, *Rocky Mount*; W. D. Turner, *Statesville*; O. Max Gardner, *Shelby*; Locke Craig, *Asheville*; C. W. Gold, *Raleigh*; E. M. Koonce, *Jacksonville*; T. W. Blount, *Roper*; D. A. Tompkins, *Charlotte*; J. T. Ellington, *Clayton*; W. E. Daniel, *Weldon*; W. H. Ragan, *High Point*; W. B. Cooper, *Wilmington*; M. B. Stickley, *Concord*; T. T. Ballenger, *Tryon*; N. B. Broughton, *Raleigh*; O. L. Clark, *Clarkton*.

## COURSES OF STUDY.

There are seven four-year courses of study, viz: Agricultural (B. Agr.); civil, mechanical, electrical, and mining engineering, and textile science and art (B. E.), and industrial chemistry and dyeing (B. S.); graduate courses; one and two year normal courses for industrial teachers; short courses of two years in mechanic arts, textile art, and applied electricity; one-year course in agriculture and dairying; an eight weeks' winter course in agriculture, and a May school (one month) for agricultural teachers.

## BOARD OF INSTRUCTION.

Daniel H. Hill, A. M., Litt. D., *President*.

William A. Withers, A. M., *Chem*.  
 Frank L. Stevens, PH. D., *Bot., Veg. Path*.  
 Clifford L. Newman, M. S., *Agr*.  
 Robert E. L. Yates, A. M., *Math*.  
 J. S. E. Young, 1st Lieut., U. S. A., *Mil. Sci. and Tactics*.  
 John Michels, B. S. A., M. S., *Animal Husb. and Dairying*.  
 Thomas P. Harrison, PH. D., *Engl*.  
 William A. Syme, PH. D., (*Asst.*) *Chem*.  
 Guy A. Roberts, B. S., D. V. S., (*Assoc.*) *Vet. Sci., Zool*.  
 A. Rudy, A. B., PH. D., *Instr. Mod. Lang*.  
 Frank C. Reimer, M. S., (*Asst.*) *Hort*.  
 R. I. Smith, B. S., (*Assoc.*) *Ent., Zool*.  
 George Summey, jr., PH. D., *Instr. Engl*.

Clarence A. Sprague, B. S., *Instr. Phys*.  
 Alfred H. Thiessen, B. S., *Instr. Met*.  
 Wiley T. Clay, B. E., *Instr. Wood-working*.  
 John A. Park, B. E., *Instr. Math*.  
 Leon F. Williams, PH. D., *Instr. Chem*.  
 Hubert Hill, M. S., *Instr. Chem*.  
 C. P. Bonn, B. A., *Instr. Engl*.  
 W. B. Truitt, B. E., *Instr. Phys*.  
 P. L. Gainey, B. AGR., *Asst. in Bot., Bact*.  
 L. L. Vaughan, B. E., *Instr. Draw*.  
 M. R. Richardson, M. A., *Instr. Math*.  
 J. S. Jeffrey, *Instr. Poultry Husb*.  
 J. P. Spoon, B. AGR., *Asst. in Vet. Lab*.  
 Edwin B. Owen, *Registrar*.  
 Arthur F. Bowen, *Bursar*.  
 Benj. S. Skinner, *Farm Supt*.  
 Henry McK. Tucker, M. D., *Physician*.  
 Elsie L. Stockard, *Libr*.



**North Carolina Agricultural Experiment Station, West Raleigh.**

Department of North Carolina College of Agriculture and Mechanic Arts, under  
control of Trustees of the College.

STATION STAFF.

Charles B. Williams, M. S., <i>Dir.; Agron.</i>	G. A. Roberts, B. S., D. V. S., <i>Vet.</i>
W. A. Withers, A. M., <i>Chem.</i>	W. A. Syme, PH. D., <i>Asst. Chem.</i>
F. L. Stevens, PH. D., <i>Veg. Path.</i>	J. G. Hall, A. M., <i>Asst. in Plant Diseases.</i>
J. S. Jeffrey, <i>Poultryman.</i>	W. C. Etheridge, B. AGR., <i>Asst. in Farm Crops.</i>
F. C. Reimer, M. S., <i>Hort.</i>	J. K. Plummer, B. S., <i>Asst. Chem.</i>
R. S. Curtis, B. S. A., <i>Animal Husb.</i>	A. R. Russell, <i>Asst. in Field Expts.</i>
John Michels, M. S. A., <i>Dairy Husb.</i>	A. F. Bowen, <i>Bursar.</i>
R. I. Smith, B. S., <i>Ent.</i>	

**Agricultural Experiment Station of the North Carolina State Department  
of Agriculture, Raleigh.**

BOARD OF CONTROL.

State Board of Agriculture: <sup>a</sup> W. A. Graham, *Commissioner of Agriculture (ex officio Chair.)*, Raleigh; J. J. Laughinghouse, *Greenville*; C. W. Mitchell, *Aulander*; William Dunn, *Newbern*; Ashley Horne, *Clayton*; R. W. Scott, *Mebane*; A. T. McCallum, *Red Springs*; J. P. McRae, *Laurinburg*; R. L. Doughton, *Laurel Springs*; A. Cannon, *Horse Shoe*.

STATION STAFF.

B. W. Kilgore, M. S., <i>Dir.; Farm Crops; State Chem.</i>	S. O. Perkins, B. S., <i>Asst. Chem.</i>
W. A. Graham, <i>in charge of Farmers' Insts.</i>	Hampden Hill, B. S., <i>Asst. Chem.</i>
Franklin Sherman, jr., B. S. AGR., <i>Ent.</i>	S. B. Shaw, B. S., <i>Asst. Hort.</i>
W. N. Hutt, B. S. A., <i>Hort.</i>	W. J. Hartman, B. S. A., M. D. C., <i>Asst. Vet.; State Vet.</i>
T. B. Parker, <i>Cooperative Expts.</i>	Zeno P. Metcalf, B. S., <i>Asst. Ent.</i>
H. H. Brimley, <i>Naturalist, Curator.</i>	S. C. Clapp, <i>Nursery and Orchard Insp.</i>
W. M. Allen, <i>Chem. (Foods).</i>	Mary S. Birdsong, <i>Sec. to Dir.</i>
C. D. Harris, B. S., A. M., <i>Asst. Chem., Microscopist (Stock Feeds).</i>	R. W. Scott, jr., <i>Supt. Edgcombe Branch Sta., Rocky Mount.</i>
J. M. Pickel, PH. D., <i>Asst. Chem.</i>	F. T. Meacham, <i>Supt. Iredell Branch Sta., Statesville.</i>
W. G. Haywood, B. LITT., <i>Asst. Chem. (Fert.).</i>	J. H. Jeffries, <i>Supt. Pender Branch Sta., Willard.</i>
G. M. MacNider, B. S., <i>Asst. Chem. (Soils).</i>	R. W. Collett, <i>Supt. Transylvania Branch Sta., Blantyre; and Buncombe Branch Sta., Black Mountain.</i>
L. L. Brinkley, <i>Asst. Chem.</i>	

**The Agricultural and Mechanical College for the Colored Race, Greensboro.**

GOVERNING BOARD.

Board of Trustees: M. C. S. Noble (*Chair.*), Chapel Hill; S. A. Kerr (*Sec. and Treas.*), Greensboro; W. R. Williams, Falkland; W. R. Newbury, Magnolia; W. D. Siler, Siler City; J. I. Foust, Greensboro; C. M. Hughes, Fayetteville;

<sup>a</sup>All members of the board connected with management of the station.

C. C. Cranford, *Ashboro*; W. L. Kluttz, *Salisbury*; J. O. Alexander, *Charlotte*; M. W. Bell, *Murphy*; G. W. Dunlap, *Norwood*; W. A. Darden, *Ayden*; J. B. Minor, *Greensboro*; R. W. Morphis, *Reidsville*; C. G. Rose, *Fayetteville*; W. A. Enloe, *Dillsboro*.

## COURSES OF STUDY.

The courses of study are: Four-year preparatory, and two four-year collegiate courses—the agricultural leading to the degree of B. Agr., and the mechanical leading to the degree of B. S.

## BOARD OF INSTRUCTION.

James B. Dudley, A. M., LL. D., *President*; *English*.

W. F. Debnam, A. B., *Asst. in Engl.*  
S. P. Sebastian, *Asst. in Engl., Arith.,*  
*Geog.*  
John H. Bluford, B. S., A. M., *Dir.*  
*Agr. Dept.*

Wm. F. Robinson, B. Agr., *Asst. in*  
*Agr.*  
Chas. N. McCune, *Dir. Dairy Dept.*  
J. Elmer Dellinger, M. D., *College Phy-*  
*sician.*

## NORTH DAKOTA.

North Dakota Agricultural College, *Agricultural College.*<sup>a</sup>

## GOVERNING BOARD.

Board of Trustees: G. H. Hollister (*Pres.*), *Fargo*; J. B. Radford, *Warren*; N. D. Nelson, *Mayville*; L. M. Wallin, *Washburn*; H. R. Hartman, *Page*; B. N. Stone, *Lamoure*; C. W. Kelley, *Devils Lake*; Fred McLean, *Langdon*; J. P. Brodie, *Dickinson*; John Bruegger, *Williston*; C. E. Nugent (*Sec.-Treas.*), *Fargo*.

## COURSES OF STUDY.

There are four-year courses in agriculture (with choice of agronomy group, animal husbandry group, or teachers' group), mechanical engineering, civil engineering, general science, and pharmaceutical chemistry (B. S.); a three-year course in farm husbandry; two-year courses in steam engineering, dairying, pharmacy, and domestic economy; a three-year teachers' course in elementary agriculture and nature study; two-year preparatory and one-year subpreparatory courses; twelve weeks' winter lecture courses in agriculture and steam engineering and in domestic science; and a correspondence course in elementary agriculture.

## BOARD OF INSTRUCTION.

J. H. Worst, LL. D., *President of the College and Director of the Experiment Station*; *Political Economy*.

E. F. Ladd, B. S., *Dean Chem., Pharm.*; *Dir. Labs.*

C. B. Waldron, B. S., *Hort., For.*

Henry L. Bolley, M. S., *Bot., Zool.*

J. H. Shepperd, M. S., *AGR., Dean Agr.*

H. W. McArdle, B. S., *Math.*

Jas. Ulio, Maj., U. S. A., *Mil. Sci. and*  
*Tactics.*

Lewis Van Es, M. D., V. S., *Vet Sci.*

Daniel E. Willard, A. M., *Geol.*

J. G. Halland, A. M., *Hist. and Civil*  
*Govt.*

Ray C. Doneghue, M. S., *Agron.*

A. E. Minard, A. M., *Engl. and Lit.*

Max Batt, PH. D., *Mod. Lang.*

W. B. Richards, B. S. A., *Animal Husb.*

Wm. B. Bell, PH. D., *Zool., Physiol.*

T. D. Beckwith, M. S., (*Asst.*) *Bact.,*  
*Plant Path.*

H. F. Bergman, B. S., (*Asst.*) *Bot.*

<sup>a</sup> Freight and express address, *Fargo*.

H. L. White, M. A., (*Asst.*) *Chem.*  
 William F. Sudro, B. S., *Instr. Pharmacognosy and Pharm. Problems.*  
 J. W. Ince, A. M., *Instr. Agr. Chem.*  
 R. E. Remington, B. A., *Instr. Food Chem.*  
 Oliver W. Dynes, B. S., *Instr. Animal Husb.*  
 Sherman D. Chambers, B. S., *Instr. Math.*  
 F. C. Householder, A. B., *Instr. Math.*  
 Alfred G. Arvold, B. A., *Engl. and Oratory.*  
 G. W. Randlett, *Supt. Corresp. Course.*  
 Margaret M. McCarty, *Instr. Cooking.*  
 Serene B. Ash, *Instr. Sew.*

Paul P. Magoffin, B. A., *Dir. Athletics.*  
 Mrs. Adele Shepperd, *Asst. in Chem. Lab.*  
 W. L. Stockham, M. S., *Asst. in Chem. Lab.*  
 Emily E. May, M. S., *Asst. in Chem.*  
 Haile Chisholm, *Foreman of Forge Shop.*  
 Geo. L. Tibert, *Foreman of Wood Shop.*  
 Robert M. Dolve, B. S., *Instr. Farm Mech.*  
 C. I. Gunness, B. S., *Asst. in Engl.*  
 Mrs. Ethel McVeety, *Libr.*  
 C. E. Nugent, *Sec.-Treas.*  
 Alfred H. Parrott, A. M., *Registrar.*

### North Dakota Agricultural Experiment Station, Agricultural College.

Department of North Dakota Agricultural College, under the control of the Board of Trustees.

#### STATION STAFF.

J. H. Worst, LL. D., *Dir.*  
 E. F. Ladd, B. S., *Chem.*  
 C. B. Waldron, B. S., *Hort., Ent.*  
 H. L. Bolley, M. S., *Bot.*  
 J. H. Shepperd, M. S., *AGR., V. Dir.; Agr.*  
 W. B. Bell, PH. D., *Asst. Bot.*  
 L. Van Es, M. D., *V. S., Vet.*  
 W. B. Richards, B. S. A., *Asst. Animal Husb.*  
 O. O. Churchill, B. S., *Asst. in Plant Breeding.*  
 T. D. Beckwith, M. S., *Asst. Bact., Plant Path.*  
 R. C. Doneghue, M. S., *Agron.*  
 H. F. Bergman, B. S., *Asst. Bot., Myc.*  
 H. L. White, M. A., *Asst. Chem. (Cereals).*  
 L. A. Brown, PHAR. D., PH. C., *Asst. Chem. (Drugs).*

R. E. Remington, B. A., *Chem. (Foods).*  
 Mrs. Adele Shepperd, *Asst. Chem. (Water and Foods).*  
 W. F. Sudro, B. S., *Asst. Chem. (Drugs).*  
 O. W. Dynes, B. S., *Asst. Poultry Husb.*  
 R. M. Dolve, B. S., *Asst. Agr. Engin.*  
 J. W. Ince, A. M., *Asst. Agr. Chem.*  
 W. L. Stockham, M. S., *Asst. Chem.*  
 C. M. Hennis, *Farm Foreman.*  
 C. E. Nugent, *Sec.*  
 Lawrence R. Waldron, M. A., *Supt. Substa., Dickinson.*  
 O. A. Thompson, B. S., *Supt. Substa., Edgeley.*  
 E. G. Schollander, B. S., *Supt. Substa., Williston.*  
 Wm. R. Porter, B. S., *Supt. Demonstration Farms.*

### OHIO.

The Colleges of Agriculture and Domestic Science and of Veterinary Medicine, Ohio State University, Columbus.

#### GOVERNING BOARD.

Board of Trustees: Frank E. Pomerene (*Pres.*), *Coshocton*; Guy W. Mallon, *Cincinnati*; Carl E. Steeb (*Sec.*), *Columbus*; Oscar T. Corson, *Columbus*; John T. Mack, *Sandusky*; F. A. Derthick (*V. Pres.*), *Mantua*; Oscar E. Bradfute, *Cedarville*; W. J. Sears, *Chillicothe*; L. F. Kieseewetter (*Treas.*), *Columbus*.

## COURSES OF STUDY.

The university is divided into seven colleges, as follows: Agriculture and domestic science; arts, philosophy, and science; education; engineering; law; pharmacy; and veterinary medicine.

The college of agriculture and domestic science offers seven distinct courses of study: Four-year courses in agriculture, horticulture and forestry, and domestic science; two-year courses in agriculture and horticulture; ten weeks' winter courses in agriculture and dairying; and a six weeks' summer course in agriculture. Degrees are granted in the four-year courses, as follows: B. S. in agriculture, B. S. in horticulture and forestry, and B. S. in domestic science.

The college of veterinary medicine offers a three-year course leading to the degree of D. V. M., and to a certificate of veterinary surgeon to those who fail in certain requirements for admission.

## BOARD OF INSTRUCTION.

Rev. William Oxley Thompson, A. M., D. D., LL. D., *President of the University.*

Homer C. Price, M. S. A., *Dean; Rural Econ.*

Alfred Vivian, PH. G., *Sec.; Agr. Chem.*

William R. Lazenby, M. AGR., *For.*

Henry A. Weber, PH. D., *Agr. Chem.*

Benjamin F. Thomas, PH. D., *Phys.*

Alfred D. Cole, *Phys.*

George W. Knight,<sup>a</sup> PH. D., *Amer. Hist., Polit. Sci.*

George W. McCoard, M. A., *Math.*

Lewis A. Rhoades, PH. D., *German.*

Albert M. Bleile, M. D., *Anat., Physiol.*

Benjamin L. Bowen, PH. D., *Romance Lang. and Lit.*

Joseph V. Denney, B. A., *Engl.*

William McPherson, PH. D., *Chem.*

David S. White, D. V. M., *Dean Vet. Med.*

Herbert Osborn, M. S., *Zool., Ent.; Dir. Lake Lab.*

Frank E. Sanborn, B. S., *Dir. Dept. Indus. Arts.*

Joseph N. Bradford, M. E., *Archit.*

John A. Bownocker, D. S., *Inorganic Geol., State Geol.; Curator Museum.*

Oscar Erf, B. S. A., *Dairying.*

Ruth A. Wardall, M. A., *Dom. Sci.; in charge of Dept. Dom. Sci.*

Charles S. Plumb, B. S., *Animal Husb.*

Charles B. Morrey, B. A., M. D., *Bact.*

David R. Major, PH. D., *Psych.*

James E. Hagerty, PH. D., *Econ. Sociol.*

F. R. Marshall, B. S., *Animal Husb.*

Francis L. Landacre, B. A., *Zool., Ent.*

Anna K. Flint, B. A., (*Assoc.*) *Dom. Art.*

Edna U. White, (*Assoc.*) *Dom. Sci.*

Charles A. Bruce, B. A., *Romance Lang.*

Thomas E. French, M. E., *Draw.*

Septimus Sisson, B. S., V. S., *Comparative Anat.*

Arthur G. McCall, B. S., *Agron.*

V. M. Shoesmith, M. S., (*Assoc.*) *Agron.*

John H. Schaffner,<sup>a</sup> A. M., M. S., (*Assoc.*) *Bot.*

Alfred P. Dachnowski, PH. D., (*Asst.*) *Bot.*

James S. Hine, B. S., (*Assoc.*) *Zool., Ent.*

Oscar V. Brumley, V. S., (*Assoc.*) *Vet. Med.*

John H. McNeil, M. D. V., *Vet. Med., Surgery and Obstetrics.*

William L. Graves, M. A., (*Assoc.*) *Engl.*

Charles L. Arnold, M. S., (*Assoc.*) *Math.*

George H. McKnight, PH. D., *Engl.*

Thos. H. Haines, PH. D., *Psych.*

Edgar S. Ingraham, PH. D., (*Assoc.*) *Romance Lang.*

Vernon H. Davis, M. S. A., (*Asst.*) *Hort., For.*

James McI. Phillips, M. D., (*Assoc.*) *Comparative Path.*

Robt. F. Earhart, PH. D., (*Asst.*) *Phys.*

Thomas K. Lewis, B. S., (*Asst.*) *Draw.*

<sup>a</sup> On leave.



George D. Hubbard, PH. D., (*Asst.*)  
*Geol.*  
 Wm. L. Evans, PH. D., (*Assoc.*) *Chem.*  
 Berthold A. Eisenlohr, PH. B., (*Assoc.*)  
*German Lang. and Lit.*  
 Robert F. Griggs, B. S., (*Asst.*) *Bot.*  
 A. D. Fitzgerald, D. V. M., (*Asst.*)  
*Comparative Anat.*  
 A. B. Nystrom, B. S. A., (*Asst.*) *Dairy*  
*Mech.*  
 A. B. Graham, *Supt. Agr. Ext.*  
 R. L. Shields, B. S. A., *Asst. Supt. Agr.*  
*Ext.*  
 J. Warren Smith, M. S., *Lect. on Met.*  
 Eugene F. McCampbell, B. S., (*Assoc.*)  
*Bact.*  
 H. C. Ramsower, B. Sc. AGR., (*Asst.*)  
*Agron.*

Charles P. Crowe, *Instr. Forging.*  
 John Chisholm, *Farm Supt.*  
 Robert Young, *Flor.*  
 David M. Fyffe, *Supt. Live Stock.*  
 R. H. Williams, M. S. AGR., *Instr. Ani-*  
*mal Husb.*  
 Firman E. Bear, B. S. A., *Instr. Agr.*  
*Chem.*  
 R. C. Collison, B. S. AGR., *Asst. in Agr.*  
*Chem.*  
 George L. Converse, Capt., U. S. A.,  
 (Retired), *Mil. Sci. and Tactics.*  
 Olive B. Jones, B. A., *Libr.*  
 Norma L. Searing, *Dir. of Phys. Ed.*  
*for Women.*  
 H. S. Wingert, *Dir. of Phys. Ed. for*  
*Men.*

### Ohio Agricultural Experiment Station, Wooster.

#### GOVERNING BOARD.

Board of Control: John Courtright (*Pres.*), *Ashville*; D. L. Sampson (*Sec.*),  
*Cincinnati*; Cary W. Montgomery (*Treas.*), *Newark*; W. I. Chamberlain, *Hud-*  
*son*; G. E. Scott, *Mount Pleasant.*

#### STATION STAFF.

Chas. E. Thorne, M. S. A., *Dir.*  
 W. J. Green, *Hort., For.*  
 Augustine D. Selby, PH. D., *Bot.*  
 C. G. Williams, *Agron.*  
 John W. Ames, M. S., *Chem.*  
 Harry A. Gossard, M. S., *Ent.*  
 B. E. Carmichael, B. S., *Animal Husb.*  
 L. H. Goddard, C. E., *Expt.*  
 E. B. Forbes, PH. D., *Nutrition.*  
 W. H. Kramer, *Bursar.*  
 Frank H. Ballou, *Asst. Hort.*  
 J. H. Gourley, B. S., *Asst. Hort.*  
 W. H. Goodwin, B. S., *Asst. Ent.*  
 T. F. Manns, M. S., *Asst. Plant Path.*  
 W. F. Pate, B. S., *Asst. Chem.*  
 Frank A. Welton, B. S., *Asst. Agron.*  
 L. L. La Shell, PH. B., *Asst. Chem.*  
 M. O. Bugby, B. S., *Asst. Expt.*

H. C. George, B. S. A., *Asst. Expt.*  
 Edmund Secrest, B. S., *Asst. For.*  
 True Houser, *Asst. in Plant Breeding.*  
 R. C. E. Wallace, B. S., *Asst. in Soils.*  
 E. W. Gaither, B. S., *Asst. Chem.*  
 Gail T. Abbott, A. B., *Asst. Agron.*  
 A. C. Whittier, B. S., *Asst. in Nutri-*  
*tion.*  
 Adolf Lehmann, PH. D., *Asst. in Nu-*  
*trition.*  
 L. T. Bowser, B. S., *Asst. Chem.*  
 William Holmes, *Farm Foreman.*  
 C. A. Patton, *Asst. Foreman; Met.*  
 Edward Mohn, *Supt. Substa., Strongsville.*  
 Henry M. Wachter, *Supt. Substa., Ger-*  
*mantown.*  
 L. Schultz, *Supt. Substa., Carpenter.*

### OKLAHOMA.

Oklahoma Agricultural and Mechanical College, *Stillwater.*

#### GOVERNING BOARD.

Board of Regents: J. P. Connors (*Pres.*), *Canadian*; J. C. Elliott (*V. Pres.*),  
*Pauls Valley*; Ewers White (*Treas.*), *McLoud*; R. F. Wilson, *Valliant*; G. T.  
 Bryan, *Perry*; Dan Diehl, *Hobart*; R. W. Lindsey, *Choteau*; T. Rice, *Hitchcock*;  
 A. C. Cobb, *Wagoner*; J. W. Corley, *Howe*; F. Ikard, *Chickasha.*

## COURSES OF STUDY.

There are five-year courses of study in general science, science and literature, agriculture, and mechanical, civil, and electrical engineering (B. S.); a two-year course in agriculture and domestic science; a one-year course in agriculture, and a one-year business course, a special ten weeks' winter term in agriculture and dairying, a one week's course in stock judging, a three weeks' course in cotton grading and seed selection, a six weeks' summer normal institute, and a two-year correspondence course in general agriculture for teachers.

## BOARD OF INSTRUCTION.

J. H. Connell, M. S., *President.*

George L. Holter, B. S., <i>Chem., Metal.</i>	Howard G. Seldomridge, <i>Instr. Engl. and Public Speaking.</i>
Lowery L. Lewis, M. S., D. V. M., <i>Zool., Vet. Sci.</i>	Madge B. Sanders, <i>Instr. Music.</i>
James W. Means, <i>Math.</i>	W. L. Burlison, B. S., <i>Asst. in Agron.</i>
John F. Nicholson, M. S., <i>Bot., Ent., Geol.</i>	Winfred R. Wright, B. S., <i>Asst. in Bact.</i>
W. W. Johnston, M. A., <i>Engl.</i>	Boyd A. Hill, <i>Phys. Dir.</i>
Boyd A. Wyse, Ph. D., <i>German, Lat.</i>	L. M. Montgomery, B. S., <i>Asst. in Hort. and Bot.</i>
Sarah W. Landes, <i>Dom. Econ.</i>	Cora L. Snapp, <i>Asst. in Engl., Lat.</i>
B. C. Pittuck, B. S., <i>Dean Agr. Schools.</i>	Elmer Becker, <i>Asst. in Shop Work.</i>
E. E. Balcomb, B. S., <i>Agr.</i>	L. S. Weatherby, <i>Asst. in Chem. Lab.</i>
Oscar M. Morris, B. S., <i>Hort.</i>	Martha B. McKinley, B. S., <i>Asst. in Dom. Econ.</i>
Llewellyn A. Moorhouse, M. S. A., <i>Agron.</i>	Cora A. Miltimore, B. S., <i>Libr.</i>
W. A. Linklater, B. S. A., <i>Animal Husb.</i>	W. W. Evans, <i>Farm Supt.</i>
Roy C. Potts, B. S., <i>Dairying.</i>	Monroe J. Otey, B. S., <i>Financial Sec.</i>
I. Zackheim, Ph. D., <i>Dir. Music.</i>	Leonard R. Hanks, M. Acct., <i>Registrar.</i>
John Alley, M. A., <i>Hist., Polit. Econ.</i>	Emma J. Ross, <i>Phys. Dir. for Women.</i>
James F. Lawrence, B. A., <i>Instr. Math., Draw.</i>	

## Oklahoma Agricultural Experiment Station, Stillwater.

Department of Oklahoma Agricultural and Mechanical College, under the control of the Board of Regents.

## STATION STAFF.

B. C. Pittuck, B. S., <i>Actg. Dir.</i>	W. A. Linklater, B. S. A., <i>Animal Husb.</i>
L. L. Lewis, M. S., D. V. M., <i>Vet., Bact.</i>	Cornelius Beatty, A. B., <i>Chem.</i>
O. M. Morris, B. S., <i>Hort., Bot.</i>	W. R. Wright, B. S., <i>Asst. Bact.</i>
J. F. Nicholson, M. S., <i>Ent.</i>	W. L. Burlison, M. S., <i>Asst. Agron.</i>
L. A. Moorhouse, M. S. A., <i>Agron.</i>	R. O. Baird, B. S., <i>Asst. Chem.</i>

## Agricultural and Normal University, Langston.

## GOVERNING BOARD.

Board of Regents: James A. Menefe (*Pres.*), *Guthrie*; E. T. Barbour (*Sec.*), *El Reno*; E. D. Cameron (*State Supt. of Public Instr.*), *Guthrie*; James A. Rouse, *Cooper.*

## COURSES OF STUDY.

The courses of study are six: Classical (B. A.); scientific (B. S.); normal (B. S. D.); agricultural (B. S. Agr.); electrical and mechanical engineering (B. M. E.); civil architecture (B. M. E.). Each course requires four years for completion. There is also a three-year college preparatory course and a four-year normal elementary course.

## BOARD OF INSTRUCTION.

Inman E. Page, M. A., *President; Psychology and Moral Philosophy.*

H. F. Mitchell, *Math.*  
Mary L. McCrary, *Dom. Econ.*  
Cora B. Burks, *Agr.*

Ada Hawes, *Engl.*  
W. A. Hinton, *Nat. and Phys. Sci.*  
Paralee Lucas, *Asst. in Engl., Arith.*

## OREGON.

Oregon State Agricultural College, *Corvallis.*

## GOVERNING BOARD.

Board of Regents: J. K. Weatherford (*Pres.*), *Albany*; J. T. Apperson, *Parkplace*; B. F. Irvine (*Treas.*), *Portland*; Mrs. Clara H. Waldo, *Maclay*; Gov. Geo. E. Chamberlain, *Salem*; F. W. Benson (*Sec. of State*), *Salem*; J. H. Ackerman (*State Supt. of Public Instr.*), *Salem*; W. P. Keady, *Portland*; Wm. W. Cotton,\* *Worcester Building, Portland*; Walter M. Pierce,\* *Pendleton*; Jno. D. Olwell,\* *Centralpoint*; A. T. Buxton, *Forest Grove*; E. E. Wilson (*Sec.*), *Corvallis.*

## COURSES OF STUDY.

There are nine four-year courses of study, viz: Agriculture, mechanical engineering, civil engineering, electrical engineering, mining engineering, household economy, commerce, pharmacy, and forestry (B. S.); two-year elementary industrial courses in agriculture, mechanic arts, domestic science and art, commerce, and forestry; two-year courses in mining and pharmacy; a course in music; short winter courses in general agriculture, dairying, horticulture, forestry, mechanic arts, and domestic science and art; a summer school in elementary agriculture for teachers, and a one week's agricultural course for farmers.

## BOARD OF INSTRUCTION.

William Jasper Kerr, D. Sc., *President.*

James Withycombe, M. AGR., *Animal Husb.; in charge of Farmers' Insts.*  
Juliet Greer, A. B., *Dean Dom. Sci. and Art.*  
Arthur B. Cordley, M. S., *Dean School of Agr.; Zool., Ent.*  
John A. Bexell, A. M., *Dean School of Commerce; Business Administration.*  
Frederick Berchtold, A. M., *Engl. and Lit.*  
John B. Horner, A. M., LITT. D., *Registrar; Hist., Polit. Sci.*

Edward R. Lake, M. S., *Bot., For.*  
John Fulton, B. AGR., B. S., *Gen. and Anal. Chem.*  
Thomas H. Crawford, A. M., *Commercial Law.*  
Claude I. Lewis, M. S. A., *Hort.*  
Ida B. Callahan, B. S., *Dean of Women; (Asst.) Engl. Lang. and Lit.*  
Fred L. Kent, B. AGR., *Dairying.*  
Henry D. Scudder, B. S., *Agron.*  
Charles L. Johnson, B. S., *Math.*

Emile F. Pernot, M. S., *Bact.*  
 U. G. McAlexander, Capt., U. S. A.,  
*Mil. Sci. and Tactics; Comdt. of*  
*Cadets.*  
 James Dryden, *Poultry Husb.*  
 Emmett D. Angell, *Phys. Ed.*  
 Farley D. McLouth, B. S., (*Asst.*) *Art.*  
 Charles E. Bradley, M. S., *Chem.*  
 Gerard Taillandier, *Mod. Lang.*  
 Nicholas Tartar, B. S., *Instr. Math.*  
 John C. Bridwell, B. S., *Instr. Zool.,*  
*Ent.*  
 Harry Beard, B. S., *Instr. Math.;*  
*Bandmaster.*  
 Loren B. Baldwin, A. M., *Instr. Engl.*  
 Grace Gatch, A. B., *Instr. Lat. and*  
*Hist.*  
 Herman V. Tartar, B. S., *Instr. Chem.*  
 Charles A. Cole, M. S. A., *Instr. Hort.*  
 William A. Jensen, *Sec.*  
 Ida A. Kidder, A. B., *Libr.*  
 Ermine L. Potter, B. S. A., *Instr. Ani-*  
*mal Husb.*  
 George R. Hyslop, B. S., *Instr. Agron.*  
 Arthur L. Peck, B. S., *Instr. Flor.,*  
*Landscape Gard.*  
 Ralph D. Hetzel, A. B., LL. B., *Instr.*  
*Public Speaking.*

Winifred M. Williams, PH. B., *Instr.*  
*Engl., Phys. Culture for Women.*  
 Roy E. Heater, *Instr. Phys. Ed.*  
 Marion S. Van Liew, *Instr. Dom. Sci.*  
 Ariel M. Ewing, *Instr. Dom. Art.*  
 Helen H. Tobin, *Instr. Dom. Art.*  
 Willibald Weniger, PH. D., *Instr. Phys.*  
 Edward B. Beaty, B. S., *Instr. Math.*  
 Simon N. Caceres, C. E., *Instr. Spanish,*  
*Math.*  
 William W. Porter, *Instr. Forging.*  
 Elmer P. Jackson, B. S., *Instr. Wood-*  
*work.*  
 Edna Green, *Instr. Art.*  
 Arthur G. B. Bouquet,<sup>a</sup> B. S., *Asst.*  
*in Hort.*  
 Ralph W. Allen, B. S., *Asst. in Hort.*  
 Clarence C. Vincent, B. S., *Asst. in*  
*Hort.*  
 Glen De Haven, B. S., *Asst. in Bact.*  
 Otto G. Simpson, B. S., *Asst. in Dairy*  
*Husb.*  
 Fred L. Griffin, B. S., *Asst. in Zool.,*  
*Ent.*  
 Laura Hill, B. S., *Asst. in Zool., Ent.*  
 Helen M. Gilkey, B. S., *Asst. in Bot.*  
 Fred C. Ewing, B. S., *Asst. in Ent.*  
 Renton K. Brodie, B. S., *Asst. in Chem.*

### Oregon Experiment Station, Corvallis.

Department of Oregon State Agricultural College, under the control of the  
 Board of Regents.

#### STATION STAFF.

James Withycombe, M. AGR., *Dir.; Ani-*  
*mal Husb.*  
 A. B. Cordley, M. S., *Ent., Plant Path.*  
 C. E. Bradley, M. S., *Chem.*  
 E. R. Lake, M. S., *For., Bot.*  
 E. F. Pernot, M. S., *Bact.*  
 C. I. Lewis, M. S. A., *Hort.*  
 F. L. Kent, B. AGR., *Dairy Husb.*  
 H. D. Scudder, B. S., *Agron.; Supt. of*  
*Farm.*  
 James Dryden, *Poultry Husb.*  
 A. L. Peck, B. S., *Flor., Landscape*  
*Gard.*  
 C. A. Cole, M. S. A., *Asst. Hort.*  
 J. C. Bridwell, B. S., *Asst. Ent.*  
 F. C. Ewing, B. S., *Asst. Ent.*

A. G. B. Bouquet,<sup>a</sup> B. S., *Asst. Oleri-*  
*culture.*  
 C. C. Cate, B. S., *Asst. Plant Path.*  
 C. C. Vincent, B. S., *Asst. Hort.*  
 E. L. Potter, B. S. A., *Asst. Animal*  
*Husb.*  
 G. R. Hyslop, B. S., *Asst. Agron.*  
 R. W. Allen, B. S., *Asst. Hort.*  
 F. L. Griffin, B. S., *Asst. Ent.*  
 Laura Hill, B. S., *Asst. Ent.*  
 Glen De Haven, B. S., *Asst. Bact.*  
 C. C. Clark, *Hort., Eastern Oreg.*  
*Substa., Union.*  
 A. L. Applewhite, B. S., *Farm Fore-*  
*man.*

<sup>a</sup> On leave.



## PENNSYLVANIA.

## The Pennsylvania State College, State College.

## GOVERNING BOARD.

Board of Trustees: James A. Beaver\* (*Pres.*), *Bellefonte*; Edwin E. Sparks\* (*ex officio, Sec.*), *State College*; Gov. Edwin S. Stuart (*ex officio*), *Harrisburg*; Charles H. Bergner (*ex officio, Pres. of the State Agr. Soc.*), *Harrisburg*; Nathan C. Schaeffer (*ex officio, Supt. of Public Instr.*), *Harrisburg*; N. B. Critchfield (*ex officio, Sec. State Bd. of Agr.*), *Harrisburg*; Charles M. Schwab, *Pittsburg*; John A. Woodward,\* *Howard*; M. E. Conard,\* *West Grove*; Charles W. Stone, *Warren*; H. Walton Mitchell, *Pittsburg*; James L. Hamill, *Columbus, Ohio*; John F. Shields, *Germantown*; Lloyd B. Huff, *Greensburg*; Richard Coulter, jr., *Greensburg*; Geo. M. Downing, *Philadelphia*; Gabriel Hiester,\* *Harrisburg*; Geo. G. Hutchison, *Warriors Mark*; Augustus C. Read, *Pittsburg*; James G. White, *New York City*; E. S. Bayard, *Pittsburg*; Marlin E. Olmsted, *Harrisburg*; Charles Miller, *Franklin*; Andrew Carnegie, *Pittsburg*; H. V. White,\* *Bloomsburg*; William F. Hill,\* *Huntingdon*; Ellis L. Orvis, *Bellefonte*; James E. Quigley, *Pittsburg*; William H. Walker, *Newtonville, Mass.*; Thomas W. Barlow, *Philadelphia*; Milton W. Lowry, *Scranton*; John Hamilton (*Treas.*), *Washington, D. C.*

## COURSES OF STUDY.

The courses of study, each requiring four years for completion unless otherwise specified, are as follows: Classical (B. A.), general science, modern language and literature (B. Litt.), Latin scientific, philosophy, agricultural, home economics, biology, chemistry, civil engineering, electrical engineering, electrochemical engineering, industrial chemistry, mathematics, mechanical engineering, physics, mines and metallurgy, and sanitary engineering (B. S.); two-year courses in mining, mechanics, and agriculture, respectively; one-year preparatory course; short courses in agriculture, mining, dairying, creamery work, horticulture, and poultry husbandry; correspondence courses in agriculture; postgraduate courses and a two weeks' summer school.

## BOARD OF INSTRUCTION.

Edwin Erle Sparks, PH D., *President; Dean of the School of History, Mathematics, and Philosophy.*

Judson P. Welsh, M. A., D. Sc., PH. D.,  
*Dean; Registrar.*

William A. Buckhout, M. S., D. Sc.,  
*Bot.*

William Frear, PH. D., *Expt. Agr. Chem.*

George G. Pond, PH. D., *Chem.; Dir. Chem. Lab.; Dean School of Nat. Sci.*

Benjamin Gill, M. A., D. D., *Greek, Lat.; Dean School of Lang. and Lit.; Chaplain.*

Thos. F. Hunt, D. Agr., D. Sc., *Dean School of Agr.*

Henry P. Armsby, PH. D., LL. D., *Dir. Institute of Animal Nutrition.*

Sara C. Lovejoy, B. A., *Actg. Dean Women's Dept.*

Erwin W. Runkle, PH. D., *Psych. and Ethics; Libr.*

Joseph M. Willard, B. A., *Math.*

Fred L. Pattee, M. A., *Engl. Lang. and Lit.*

Carl D. Fehr, M. A., *German.*

Irving L. Foster, M. A., *Romance Lang.*

William H. Hay, Capt., U. S. A., *Mil. Sci. and Tactics.*

Hubert E. Van Norman, B. S., *Dairy Husb.*

Perley O. Ray, M. A., *Hist. and Polit. Sci.*

Alva Agee, *Agr. Ext.; Prin. of Short Courses.*

J. Franklin Meyer, PH. D., *Phys.*

Hugh P. Baker, B. S., M. F., *For.*

Charles L. Penny, M. A., *Agr. Chem.*

Ralph L. Watts, M. S., *Hort.*

Frank D. Gardner, B. S., *Agron.*

- Joseph H. Tudor, C. E., M. S., (*Assoc.*) *Math.*  
 A. Howry Espensshade, M. A., (*Assoc.*) *Engl., Rhet.*  
 H. Freeman Stecker, PH. D., (*Assoc.*) *Math.*  
 Anna E. Redifer, (*Asst.*) *Indus. Art and Design.*  
 Madison M. Garver, B. S., (*Asst.*) *Phys.*  
 Thomas I. Mairs, M. S., (*Asst.*) *Animal Indus.; Supt. of Corresp. Courses.*  
 Walter J. Keith, PH. D., (*Asst.*) *Org. Chem.*  
 Jesse B. Churchill, B. S., (*Asst.*) *Indus. Chem.*  
 John H. Frizzell, B. A., (*Asst.*) *Engl., Oratory.*  
 Elizabeth B. Meek, M. S., (*Asst.*) *Bact.*  
 Wilber R. McConnell, B. S., (*Asst.*) *Zool.*  
 John P. Stewart, M. S. A., (*Asst.*) *Expt. Hort.*  
 Milton S. McDowell, M. S., (*Asst.*) *Expt. Agr. Chem.*  
 Harry R. Fulton, M. A., (*Asst.*) *Bot.*  
 B. E. Brown,<sup>a</sup> M. S., (*Asst.*) *Agron.*  
 Lucretia Van T. Simmons, PH. B., M. A., *Instr. German.*  
 Emma A. McFeely, *Instr. Indus. Art.*  
 Thomas E. Gravatt, B. S., *Instr. Math.*  
 Mahlon J. Rentschler, B. S., *Instr. Qualitative Anal.*  
 Frederic A. Hilary, M. A., *Instr. German.*  
 Geo. K. Pattee, M. A., *Instr. Rhet.*  
 Frederick W. Beal, PH. B., M. A., *Instr. Math.*  
 Geo. A. Whittemore, B. A., *Instr. Math.*  
 Edmund V. Gage, B. A., *Instr. Romance Lang.*  
 Victor L. Logo, B. S., *Instr. Quantitative Anal.*  
 William D. Crockett, M. A., *Instr. Rhet., Oratory, Hist.*  
 Paul D. Potter, B. A., *Instr. Gen. Chem.*  
 Jesse F. Stinard, B. A., *Instr. German and French.*  
 Louise Waugh, B. S., *Instr. Home Econ.*  
 Lulu B. Smith, PH. B., *Instr. Gymnastics.*  
 Charles F. Shaw, B. S., *Instr. Agron.*  
 Reginald S. Hemingway, B. A., *Instr. Math.*  
 Edwin A. Cottrell, B. A., *Instr. Hist. and Polit. Sci.*  
 Fred J. Kaufman, B. S., *Instr. Gen. Chem.*  
 Grover C. Chandlee, PH. B., *Instr. Gen. Chem.*  
 J. W. Clark, B. S., *Instr. Poultry Husb.*  
 William S. Dye, jr., B. A., *Instr. Engl.*  
 Carl W. Larsen, B. S. A., *Instr. Dairy Husb.*  
 Mary T. Harman, B. A., *Instr. Zool.*  
 Samuel W. Niederhauser, M. A., *Instr. Math.*  
 Helen H. Atherton, *Instr. Music.*  
 J. A. Ferguson, M. A., M. F., *Instr. For.*  
 F. C. Miller, B. A., *Instr. Phys.*  
 Elizabeth Bemis, B. S., *Instr. Dom. Sci.*  
 Paul S. Worth, *Instr. Math.*  
 Arthur L. Wright, *Instr. Math.*  
 B. H. Goldsmith, *Instr. German.*  
 Henry J. Kline, *Instr. Phys.*  
 Guy C. Given, B. S., *Asst. in Chem.*  
 John W. White, B. S., *Asst. in Chem.*  
 Margaret B. MacDonald, PH. D., *Asst. in Agr. Chem.*  
 Charles F. Noll, B. S., *Asst. in Expt. Agron.*  
 Joseph J. Skinner, B. S., *Asst. in Agron.*  
 W. H. McIntire, B. S., *Asst. in Agron.*  
 J. Plummer Pillsbury, *Asst. in Hort.*  
 C. E. Myers, B. S., *Asst. in Hort.*  
 J. A. Runk, *Asst. in Bot.*  
 Cletus L. Goodling, B. S., *Asst. in Dairy Husb.*  
 Frank P. Knoll, *Asst. in Butter Making.*  
 S. W. Doty, B. S., *Asst. in Animal Husb.*  
 W. R. White, B. S., *Asst. in Corresp. Courses.*  
 Harry D. Edmiston, *Lab. Asst.*

<sup>a</sup> Assigned by the Bureau of Soils, U. S. Department of Agriculture.

The Pennsylvania State College Agricultural Experiment Station, *State College.*<sup>a</sup>

Department of the Pennsylvania State College, under the control of the Board of Trustees.

STATION STAFF.

Thomas F. Hunt, D. Agr., D. Sc., <i>Dir.</i>	C. W. Larsen, B. S. A., <i>Asst. Dairy Husb.</i>
William Frear, Ph. D., <i>V. Dir.; Chem.</i>	J. Plummer Pillsbury, <i>Asst. Hort.; Gard.</i>
Wm. A. Buckhout, D. Sc., <i>Bot.</i>	J. W. White, B. S., <i>Asst. Chem.</i>
H. E. Van Norman, B. S., <i>Dairy Husb.</i>	G. C. Given, B. S., <i>Asst. Chem.</i>
Alva Agee, <i>Agr. Ext.</i>	C. L. Goodling, B. S., <i>Asst. Dairy Husb.</i>
Frank D. Gardner, B. S., <i>Agron.</i>	Margaret B. MacDonald, Ph. D., <i>Asst. Chem.</i>
H. P. Baker, B. S., M. F., <i>For.</i>	Howard R. McMillan, B. S., <i>Asst. Chem.</i>
C. L. Penny, A. M., <i>Chem.</i>	C. F. Noll, B. S. A., <i>Asst. Expt. Agron.</i>
Ralph L. Watts, B. Agr., M. S., <i>Hort.</i>	W. H. McIntire, B. S., <i>Asst. Agron.</i>
T. I. Mairs, M. S., <i>Animal Husb.</i>	C. E. Myers, B. S., <i>Asst. Hort.</i>
J. P. Stewart, M. S. A., <i>Hort.</i>	S. W. Doty, B. S., <i>Asst. Animal Husb.</i>
W. C. Patterson, <i>Farm Supt.</i>	J. A. Ferguson, M. A., M. F., <i>Asst. For.</i>
Julia C. Gray, <i>Libr.</i>	J. A. Runk, <i>Asst. Bot.</i>
B. E. Brown, <sup>b</sup> M. S., <i>Agron.</i>	H. D. Edmiston, <i>Lab. Asst.</i>
M. S. McDowell, M. S., <i>1st Asst. Chem.</i>	
H. R. Fulton, M. A., <i>Bot.</i>	
Elizabeth B. Meek, M. S., <i>Bact.</i>	
C. F. Shaw, B. S., <i>Asst. Agron.</i>	
J. W. Clark, <i>Asst. Poultry Husb.</i>	

The Pennsylvania State College Institute of Animal Nutrition, *State College.*

Department of the Pennsylvania State College under the control of the Board of Trustees.

INSTITUTE STAFF.

H. P. Armsby, Ph. D., LL. D., <i>Dir.</i>	D. C. Cochrane, B. S., <i>Asst. in Animal Nutrition.</i>
J. A. Fries, M. S., <i>Asst. Dir.</i>	John W. Calvin, B. S., <i>Asst. in Animal Nutrition.</i>
Winfred W. Braman, B. S., <i>Asst. in Animal Nutrition.</i>	Roy C. Jones, B. S., <i>Asst. in Animal Nutrition.</i>
F. W. Christensen, <sup>c</sup> B. S., <i>Asst. in Animal Nutrition.</i>	
Robert A. Lichtenthaeler, M. S., <i>Asst. in Animal Nutrition.</i>	

<sup>a</sup> Freight.

<sup>b</sup> Assigned by the Bureau of Soils, U. S. Department of Agriculture.

<sup>c</sup> On leave.

## PORTO RICO.

Porto Rico Agricultural Experiment Station, *Mayaguez*.

Under the supervision of A. C. True, Director Office of Experiment Stations,  
United States Department of Agriculture.

## STATION STAFF.

D. W. May, M. Agr., <i>Spécial Agent in Charge; Animal Husb.; in Charge of Farmers' Insts.</i>	J. W. van Leenhoff, <i>Coffee Expert.</i>
W. V. Tower, B. S., <i>Ent.</i>	P. L. Gile, A. B., <i>Chem.</i>
Martin J. Iorns, Ph. D., <i>Hort.</i>	E. G. Ritzman, <i>Asst. Animal Husb.</i>
	G. L. Fawcett, <i>Asst. Plant Path.</i>

## RHODE ISLAND.

Rhode Island College of Agriculture and Mechanic Arts, *Kingston*.

## GOVERNING BOARD.

Board of Managers: Chas. Dean Kimball (*Pres.*), *Providence*; Robert S. Burlingame (*V. Pres.*), *Newport*; Jesse V. B. Watson, *Wakefield*; C. H. Coggeshall (*Clerk and Treas.*), *Bristol*; T. G. Mathewson, *East Greenwich*.

## COURSES OF STUDY.

There are four four-year courses of study, viz: Agricultural, with options in agronomy, horticulture, and animal husbandry; engineering, with options in mechanical, electrical, civil, and chemical engineering; teachers' course in applied science, and home economics (B.S.); two-year agricultural and engineering courses of high school grade, and a poultry school, extending through twelve weeks; a two-year preparatory course for students from country schools to prepare them for college courses.

## BOARD OF INSTRUCTION.

Howard Edwards, M. A., LL. D., *President; Political Economy and Social Science.*

Homer J. Wheeler, Ph. D., <i>Agr. Chem., Geol.</i>	Andrew E. Stene, M. S. A., <i>Supt. College Ext.</i>
E. Josephine Watson, M. A., <i>Lang.</i>	Josephine O. Bostwick, A. B., <i>Instr. Engl., Hist.</i>
Harriet L. Merrow, M. A., <i>Bot.</i>	Wm. S. Spencer, B. D., <i>Instr. Engl.</i>
George E. Adams, B. S., <i>Agr.</i>	Ernest K. Thomas, <i>Asst. in Hort.</i>
Virgil L. Leighton, Ph. D., <i>Chem.</i>	E. A. Mallette, <i>Florist.</i>
John Barlow, A. M., <i>Zool.</i>	D. J. Lambert, <i>Instr. Poultry Husb.; in charge of Poultry Dept.</i>
Gilbert Tolman, A. M., <i>Phys.</i>	J. R. Eldred, B. S., <i>Instr. Mech. Engin.</i>
Marshall H. Tyler, B. S., <i>Math.</i>	Francis H. Smith, Ph. B., Sc. M., <i>Instr. Chem.</i>
S. H. Webster, B. S., <i>Civil Engin.</i>	Thomas C. Rodman, <i>Instr. Woodwork.</i>
Warren B. Madison, B. S., <i>Animal Husb.</i>	Henry G. Stahl, Lieut., U. S. A., <i>Mil. Sci. and Tactics.</i>
Helen L. Johnson, B. S., <i>Home Econ.</i>	Lillian M. George, A. B., <i>Libr.</i>
Mabel D. Eldred, B. S., <i>Instr. Drawing.</i>	Nathaniel Helme, <i>Met.</i>
Howland Burdick, B. S., <i>Instr. Dairying.</i>	



Rhode Island Agricultural Experiment Station, *Kingston*.

Department of Rhode Island College of Agriculture and Mechanic Arts, under the control of the Board of Managers.

## STATION STAFF.

H. J. Wheeler, PH. D., <i>Dir.; Agron.</i>	A. L. Whiting, B. S., <i>Asst. Agron.</i>
Burt L. Hartwell, PH. D., <i>Chem.</i>	J. Frank Morgan, M. A., <i>Asst. Chem.</i>
G. E. Adams, B. S., <i>Hort.</i>	Nathaniel Helme, <i>Met.</i>
Philip B. Hadley, PH. D., <i>Biol.</i>	L. F. Whipple, <i>Asst. Chem.</i>
P. H. Wessels, B. S., <i>Asst. Chem.</i>	Wilhelm Quantz, PH. D., <i>Asst. Chem.</i>
W. F. Kirkpatrick, B. Agr., B. E., <i>Asst. Biol.</i>	J. Swett Irish, B. S., <i>Asst. Biol.</i>
S. C. Damon, B. S., <i>Asst. Agron.</i>	F. R. Pember, B. S., <i>Asst. Physiol. Bot.</i>
	E. A. Mallette, <i>Asst. Hort.</i>

## SOUTH CAROLINA.

Clemson Agricultural College of South Carolina, *Clemson College*.<sup>a</sup>

## GOVERNING BOARD.

Board of Trustees: Alan Johnstone (*Pres.*), *Newberry*; R. W. Simpson, *Pendleton*; P. H. E. Sloan (*Sec. and Treas.*), *Clemson College*; M. L. Donaldson,\* *Greenville*; R. E. Bowen, *Easley*; B. R. Tillman,\* *Trenton*; W. W. Bradley, *Abbeville*; W. D. Evans,\* *Cheraw*; L. A. Sease, *Prosperity*; J. E. Wannamaker,\* *St. Matthews*; Ivy M. Mauldin, *Pickens*; J. H. Hardin, *Chester*; H. M. Stackhouse (*Sec. Fertilizer Dept.*), *Clemson College*; J. C. Richards, jr., *Liberty Hill*; C. D. Mann,\* *West Union*.

## COURSES OF STUDY.

There are seven four-year courses of study leading to the degree of B. S., viz: In agriculture, agriculture and chemistry, agriculture and animal husbandry, mechanical and electrical engineering, civil engineering, chemistry and geology, and textile industry; a two-year course in textile industry, and a one-year preparatory course. Special courses are given to farmers and others of mature age who desire to avail themselves of the privileges of the college.

## BOARD OF INSTRUCTION.

Patrick H. Mell, PH. D., LL. D., *President*.

Mark B. Hardin, <i>Dir. Chem. Dept.</i>	Fred H. H. Calhoun, PH. D., <i>Geol., Min.</i>
David N. Barrow, B. S., M. A., <i>Dir. Agr. Dept.; Agr.; in charge of Farmers' Insts.</i>	C. H. Shattuck, PH. D., <i>Bot., For.</i>
Walter M. Riggs, E. M. E., <i>Dir. Mech. and Elect. Dept.</i>	David W. Daniel, M. A., ( <i>Assoc.</i> ) <i>Engl.</i>
Charles M. Furman, B. A., <i>Engl.</i>	Rudolph E. Lee, B. S., ( <i>Assoc.</i> ) <i>Draw.</i>
Wm. S. Morrison, B. A., <i>Hist., Polit. Econ.</i>	R. A. Hall, PH. D., ( <i>Asst.</i> ) <i>Chem.</i>
J. C. Minus, Capt., U. S. A., <i>Comdt.; Mil. Sci.</i>	John W. Gantt, ( <i>Asst.</i> ) <i>Forge and Pounding.</i>
Samuel M. Martin, B. S., <i>Math.</i>	M. Ray Powers, D. V. S., ( <i>Assoc.</i> ) <i>Vet. Sci.</i>
	Frank Bogard, B. M. E., <i>Instr. Draw.</i>
	Joseph E. Hunter, B. S., ( <i>Asst.</i> ) <i>Math.</i>
	Thomas W. Keitt, ( <i>Asst.</i> ) <i>Engl.</i>

<sup>a</sup> Telegraph and express address, *Clemson College*; freight address, *Calhoun*.

Thomas G. Poats, M. E., E. E., (*Assoc.*)  
*Phys.*

Chas. S. Doggett, *Dir. Textile Dept.*

Williston W. Klugh, B. S., (*Asst.*)  
*Draw.*

R. N. Brackett, Ph. D., (*Assoc.*) *Chem.*

Burr H. Johnstone, A. B., (*Asst.*) *Math.*

Andrew Bramlett, B. S., (*Asst.*) *Math.*

Hale Houston, C. E., (*Assoc.*) *Applied*  
*Math. in Civil Engin.*

Augustus G. Shanklin, B. S., (*Assoc.*)  
*Math.*

Alexander M. Redfern, B. S., M. D.,  
*Surgeon.*

Andrew B. Gardner, *Asst. in Wood-*  
*work.*

T. R. Burruss, jr., B. S., *Instr. Draw.*

Z. R. Lewis, *Asst. in Forge and Foun-*  
*dry.*

John H. Hook, B. S., (*Asst.*) *Wood-*  
*work.*

D. O. Nourse, B. S., (*Assoc.*) *Animal*  
*Husb. and Dairying.*

Junius M. Burgess, B. S., (*Asst.*) *Animal*  
*Husb. and Dairying.*

Arthur B. Bryan, B. S., B. Lit.,  
(*Asst.*) *Engl.*

David H. Henry, B. S., (*Asst.*) *Chem.*

Geo. G. Ainslie, (*Asst.*) *Ent.*

Benjamin Freeman, B. S., *Asst. in*  
*Chem.*

Mark E. Bradley, B. A., (*Asst.*) *Engl.*

Alester D. Holmes, B. S., (*Asst.*) *Engl.,*  
*Hist., Geog., Prep. Dept.*

L. A. Sease, (*Asst.*) *Prep. Dept.*

Katherine B. Trescot, *Libr.*

James P. Lewis, *Supt. College Farm.*

### South Carolina Agricultural Experiment Station, *Clemson College.*

Department of Clemson Agricultural College, under the control of the Board of Trustees.

#### STATION STAFF.

J. N. Harper, B. S., M. Agr., *Dir.; Agr.*

H. W. Barre, B. S., *Bot., Bact.*

Thos. E. Keitt, B. S., *Chem.*

C. C. Newman, *Hort.*

A. F. Conradi, M. S., *Zool.; Ent.*

J. N. Hook, *Sec.*

Enoch Barnett, V. M. D., *Animal*  
*Husb.; Vet.*

W. D. Garrison, B. S., *Asst. Agr.*

W. A. Thomas, B. S., *Asst. Zool., Ent.*

J. W. McLendon, B. S., *Asst. Bot., Bact.*

Burns Gillison, *Foreman of Sta. Farm.*

### The Colored Normal, Industrial, Agricultural, and Mechanical College of South Carolina, *Orangeburg.*

#### GOVERNING BOARD.

Board of Trustees: Gov. M. F. Ansel (*Chair.*), *Columbia*; W. R. Lowman  
(*Sec.*), *Orangeburg*; D. J. Bradham, *Greelyville*; A. L. Dukes, *Orangeburg*;  
Arthur Kibler, *Newberry*; G. B. White, *Chester*; J. W. Floyd, *Kershaw*.

#### COURSES OF STUDY.

The courses of study are four in number and require four years each for completion: The collegiate (B. A.); the agricultural (B. Agr.); the mechanical (B. S.); the normal (L. I., Licentiate of Instruction), and the preparatory, leading up to the four above-named courses.

## BOARD OF INSTRUCTION.

Thos. E. Miller, LL. D., *President; Agriculturist, Director of Industries; in charge of Farmers' Institutes.*

Robert S. Wilkinson, M. A., PH. D.,  
*Phys., Chem.; Comdt.; Sec.*

H. P. Butler, M. A., *Engl. Lang., Lit.,  
Logic, Lat.*

Nelson C. Nix, M. A., *Math., Mech.*

Johnson C. Whittaker, A. B., *Pedag.,  
Civics, (Asst.) Agr.*

Mattie J. Coles, *Engl.*

Louise B. Fordham, A. B., *Draw., Art,  
(Adjunct) Hist.*

Pansy E. Miller, *Instr. Engl., Book-  
keeping, Penmanship.*

Kate L. Cardoza, *Instr. Reading, Geog.*

Mamie L. Abrams, *Instr. Physiol.,  
Hyg., Phys. Sci.*

Hattie C. Holloway, *Instr. Engl.*

C. H. Uggams, A. M., *Vocal and In-  
strumental Music.*

W. H. Adams, *Farm Supt.; Instr.  
Dairying.*

Miss M. J. Miller, *Instr. Dairying,  
Cheese Making.*

Miss C. C. Davis, *Dressmaking, Plain  
Sew.*

Cornelia J. Gregg, *Dom. Econ.; Matron.*

## SOUTH DAKOTA.

South Dakota State College of Agriculture and Mechanic Arts, Brookings.

## GOVERNING BOARD.

State Board of Regents of Education: E. C. Ericson (*Pres.*), *Elk Point*; Frederick A. Spafford (*V. Pres.*),\* *Flandreau*; A. W. Burt, *Huron*; A. J. Norby,\* *Sisseton*; Albert Anderson, *Sturgis*; I. D. Aldrich (*Sec.*), *Bigstone*.

## COURSES OF STUDY.

Four-year courses, leading to the degree of B. S., are offered in agriculture, horticulture, home economics, general science, mechanical engineering, electrical engineering, and civil engineering. A fifth-year course is offered in engineering, leading to the degree M. E., E. E., or C. E. Regular two-year work in pharmacy, leading to the degree of Ph. G., a three-year preparatory course, short courses in agriculture, and courses in music are also offered. Certificates are granted those completing the prescribed three years' work in commercial science, the year's work in steam engineering, and the special quarter-year work offered in agriculture, horticulture, dairying, and domestic science.

## BOARD OF INSTRUCTION.

Robert L. Slagle, A. M., PH. D., *President; Geology.*

James H. Shepard, B. S., *Chem.*

Niels E. Hansen, M. S., *Hort., For.*

Edward L. Moore, B. S., D. V. S., *Zool.,  
Vet. Med.*

Madison C. Bates, A. M., *Engl. Lit.*

Ada B. Caldwell, *Indus. Art.*

Robert B. Forsee, PE. P., *Prin. Prep.  
Dept.*

Albert S. Harding, A. M., *Hist., Polit.  
Sci.*

James W. Wilson, M. S. A., *Agr., Ani-  
mal Husb.*

J. N. Rodeheaver, *Pedag., Lat.*

George D. Guyer, *Mil. Sci. and Tactics.*

William S. Hayes, A. B., *French, Ger-  
man.*

Edith M. Wilcox, B. L., Ed. B., *Home  
Econ.*

Arthur A. Brigham, PH. D., *Prin.  
School of Agr.*

Jessie M. Hoover, B. S., *Preceptress School of Agr.*

Edgar W. Olive, A. M., Ph. D., *Bot.*

Henry H. Loudenback, *Music.*

William H. Powers, A. M., *Libr.; (Assoc.) Engl.*

Maude Goddard, *Asst. in Art Dept.*

B. H. Alton, *Asst. in Zool., Bact.*

Christian Larsen, M. S. A., *Dairy Sci.*

Clifford Willis, M. S., *Agron.*

J. N. Saunderson, *Dir. Athletics.*

Robert Matheson, M. S. A., *Instr. Ent.*

Charles H. Viol, B. S., *Instr. Chem.*

T. Herbert Lund, *Asst. in Dairy Husb.*

J. V. Bopp, B. S., *Instr. Agron.*

Gertrude S. Young, A. B., *Inscr. Prep. Dept.*

Nola K. Fromme, B. S., *Asst. in Home Econ.*

Carrie L. Phillips, M. S., *Asst. Libr.*

Arthur E. Koch, B. S., *Asst. in Chem.*

R. Adams Dutcher, B. S., *Asst. in Chem.*

R. A. Larson, *Sec.*

### South Dakota Agricultural Experiment Station, Brookings.

Department of South Dakota State College of Agriculture and Mechanic Arts,  
under the control of the State Board of Regents of Education.

#### STATION STAFF.

Jas. W. Wilson, M. S. A., *Dir.; Agr., Animal Husb.*

N. E. Hansen, M. S., *V. Dir.; Hort.*

J. H. Shepard, B. S., *Chem.*

E. W. Olive, A. M., Ph. D., *Bot.*

E. L. Moore, B. S., D. V. S., *Vet.*

C. Larsen, M. S. A., *Dairying.*

Clifford Willis, M. S., *Agron.*

T. H. Lund, *Asst. Dairy Husb.*

Robert Matheson, M. S., *Ent.*

R. A. Larson, *Sec., Acct.*

Sylvester Balz, *Supt. Highmore Substa.*

Wm. West, *Farm Foreman.*

F. C. Stoltenberg, *Flor.*

J. V. Bopp, B. S., *Asst. Agron.*

A. E. Koch, Ph. G., *Asst. Chem.*

R. A. Dutcher, B. S., *Asst. Chem.*

### TENNESSEE.

College of Agriculture of the University of Tennessee, Knoxville.

#### GOVERNING BOARD.

Board of Trustees: Brown Ayres (*Pres.*), Knoxville; James Maynard (*Treas.*), Knoxville; William Rule (*Sec.*), Knoxville; the Governor; Secretary of State; Superintendent of Public Instruction; H. G. Kyle, Rogersville; J. M. Boyd, Knoxville; J. W. Caldwell,\* Knoxville; Chalmers Deaderick, Knoxville; S. B. Luttrell, Knoxville; Samuel McKinney, Knoxville; Hu L. McClung, Knoxville; James Park, Knoxville; E. T. Sanford, Knoxville; F. A. R. Scott, Knoxville; Xenophon Wheeler, Chattanooga; J. B. Frazier, Chattanooga; Harris Brown,\* Gallatin; T. R. Meyers, Shelbyville; T. F. P. Allison,\* Nashville; Z. W. Ewing, Pulaski; S. F. Thomas, Brownsville; T. E. Harwood,\* Trenton; M. B. Trezevant, Memphis; J. M. Greer, Memphis; W. W. Ogilvie,\* Nashville; W. C. Tatom, Nashville; John L. Rhea, Knoxville; Wickliffe Rose, Nashville; S. A. Mynders, Knoxville; H. L. Anderson, Jackson; Campbell Brown, Spring Hill; H. B. Clay, Rogersville.

#### COURSES OF STUDY.

There are ten four-year courses of study, viz: Literary, scientific, home economics (B. A. and B. S.), agricultural science (B. S. A.), civil engineering, mechanical engineering, electrical engineering, mining engineering, chemical, and pharmaceutical (B. S.); two-year courses in agriculture and in pharmacy (Ph. C.); two weeks' courses in agriculture, animal husbandry, dairying, horticulture, and domestic science, respectively; and a six weeks' summer course in agriculture for teachers.



## BOARD OF INSTRUCTION.

Brown Ayres, PH. D., LL. D., D. C. L., *President of the University; Physics and Astronomy.*

Cooper D. Schmitt, M. A., *Dean College; Math.*

Chas. E. Wait, C. E., M. E., PH. D., *Chem.*

H. B. Myers, Capt., U. S. A., *Mil. Sci. and Tactics.*

Harcourt A. Morgan, B. S. A., *Zool., Ent.; State Ent.*

Charles A. Keffer, M. S., *Hort., For.*

J. Douglas Bruce, M. A., PH. D., *Engl.*

Samuel McC. Bain, A. B., *Bot.*

Henry J. Darnall, M. A., *Mod. Lang.*

James D. Hoskins, A. M., LL. B., *Hist., Econ.*

Charles H. Gordon, M. S., PH. D., *Geol., Min.*

James T. Porter, PH. D., (Assoc.) *Phys.*

Charles A. Mooers, B. S., *Agron., Agr. Chem.*

Marie L. Tuttle, *Dean of Women; (Asst.) Home Econ.*

J. Thompson Brown, jr., M. A., (Asst.) *Engl.*

Charles O. Hill, A. B., PH. C., (Asst.) *Chem., Pharm.*

John B. Hamilton, M. A., (Asst.) *Math.*

Josiah Main, M. S. A., (Asst.) *Agr. Ed.*

Gordon M. Bentley, B. S. A., M. A., (Asst.) *Zool., Ent.; Asst. State Ent.*

Samuel H. Essary, M. S., (Asst.) *Bot.*

William E. Grainger, B. S., *Instr. Agr. Chem.*

Moses Jacob, V. M. D., *Instr. Vet. Sci.*

Friend C. Quereau, M. S. A., *Instr. Animal Husb., Dairying.*

James Tyler, *Poultryman.*

John F. Voorhees, *Instr. Met.*

Wm. A. Knabe, *Bandmaster.*

Maurice Mulvania, M. S., *Asst. in Bact.*

Edwin C. Cotton, B. S., *Asst. in Ent.*

Louise Turner, A. B., *Asst. in Home Econ.*

Henry H. Hampton, B. S., *Asst. in Agr. Chem.*

Chas. H. Lane, M. A., *Asst. in Agron., Agr. Chem.*

W. H. Maynard, B. S., *Asst. in Chem. Lab.*

Thos. D. Morris, LL. B., *Bursar-Registrar.*

Sabra W. Vought, A. B., *Libr.*

Nelle Nicholas, *Asst. Registrar.*

**Tennessee Agricultural Experiment Station, Knoxville.**

Department of the University of Tennessee, under the control of the Board of Trustees.

## STATION STAFF.

H. A. Morgan, B. S. A., *Dir.; Zool., Ent.*

S. McC. Bain, A. B., *Bot.*

C. A. Mooers, B. S., *Chem., Agron.*

C. A. Keffer, M. S., *Hort., For.*

S. E. Barnes, M. S. A., *Field Expert in Dairying.*

Moses Jacob, V. M. D., *Vet.*

F. C. Quereau, M. S. A., *Animal Husb., Dairyman.*

S. H. Essary, M. S., *Asst. Bot., Myc.*

G. M. Bentley, B. S. A., M. A., *Asst. Zool., Ent.*

W. E. Grainger, B. S., *Fert. and Food Chem.*

Maurice Mulvania, M. S., *Asst. Bact.*

E. C. Cotton, B. S., *Asst. Ent.*

H. H. Hampton, B. S., *Soil Chem.*

W. A. Campbell, *Farm Foreman.*

S. M. Spangler, *Asst. in Plat Work.*

C. H. Lane, M. A., *Asst. Agron., Agr. Chem.*

F. H. Denniss, B. S. A., *Asst. Dairyman.*

F. H. Broome, *Libr., Sec.*

J. E. Hite, B. S. A., *Asst. in Cooperative Expts., Gallatin.*

J. E. Converse, *Asst. in Cooperative Expts., Crossville.*

W. N. Rudd, *Asst. in Cooperative Expts., McMinnville.*

## TEXAS.

## Agricultural and Mechanical College of Texas, College Station.

## GOVERNING BOARD.

Board of Directors: K. K. Legett (*Pres.*), *Abilene*; T. D. Rowell (*V. Pres.*), *Jefferson*; A. Haidusek, *Lagrange*; J. M. Green, *Yoakum*; Walton Petest, *Dallas*; E. R. Kone, *San Marcos*; L. L. McInnis, *Bryan*; W. P. Sebastian, *Breck-enridge*.

## COURSES OF STUDY.

The courses of study are as follows: Four-year agricultural, horticultural, and animal husbandry; mechanical engineering, textile engineering, electrical engineering, civil engineering, and architectural engineering (B. S.); special, elective, and graduate courses, and a two-year course in agriculture.

## BOARD OF INSTRUCTION.

Robert T. Milner, *President of the College*.

Charles Puryear, M. A., C. E., <i>Dean; Math.</i>	J. A. Lomax, A. B., ( <i>Assoc.</i> ) <i>Engl.</i>
Mark Francis, D. V. M., <i>Vet. Sci.</i>	T. J. Wertenbaker, M. A., ( <i>Assoc.</i> ) <i>Hist. and Econ.</i>
F. E. Giesecke, M. E., <i>Draw., Archi. Engin.</i>	A. Mitchell, B. C. E., <i>Instr. Draw.</i>
J. C. Nagle, M. A., M. C. E., <i>Civil Engin.</i>	J. E. Lear, B. S., <i>Instr. Phys., Elect. Engin.</i>
O. F. Chastain, <i>Hist.</i>	R. P. Marsteller, D. V. M., <i>Instr. Vet. Sci.</i>
D. W. Spence, B. S., C. E., ( <i>Assoc.</i> ) <i>Civil Engin.</i>	J. S. Dean, B. S., A. E., <i>Instr. Archi. Engin. and Draw.</i>
Edwin J. Kyle, M. S. A., <i>Hort.</i>	J. L. Thomas, B. S., <i>Instr. Dairying.</i>
Glenn W. Herrick, B. S. A., <i>Ent.</i>	W. H. Thomas, B. Lit., <i>Instr. Engl.</i>
C. P. Fountain, A. M., <i>Engl.</i>	J. W. Kidd, B. S., <i>Instr. Elect. Engin.</i>
O. M. Ball, M. A., Ph. D., <i>Bot., Myc.</i>	H. R. Weber, <i>Instr. Draw.</i>
J. B. Bagley, B. S., T. E., <i>Textile Engin.</i>	A. R. Nottingham, <i>Instr. Mech. Engin.</i>
George S. Fraps, Ph. D., ( <i>Assoc.</i> ) <i>Agr. Chem.; State Chem.</i>	Gates Thomas, B. Lit., <i>Instr. Engl.</i>
C. B. Campbell, Ph. B., <i>Lang.</i>	H. Ness, M. S., <i>Instr. Hort.</i>
J. C. Blake, Ph. D., <i>Gen. Chem.</i>	J. A. Herrington, B. M. E., <i>Instr. Woodwork.</i>
E. J. Fermier, M. E., <i>Mech. Engin.</i>	F. H. MacDougal, Ph. D., <i>Instr. Chem.</i>
C. H. Alvord, B. S., <i>Agr. Dairying.</i>	C. S. Tatum, B. S., <i>Instr. Textile Engin.</i>
John C. Burns, B. S., ( <i>Actg.</i> ) <i>Animal Husb.</i>	E. Scholl, B. S., <i>Instr. Ent.</i>
Robert F. Smith, ( <i>Assoc.</i> ) <i>Math.</i>	J. W. Mitchell, A. B., <i>Instr. Math.</i>
Andrew Moses, <i>Mil. Sci.; Comdt. of Cadets.</i>	W. W. Reed, B. S., <i>Instr. Engl.</i>
T. P. Junkin, A. M., ( <i>Assoc.</i> ) <i>Math.</i>	R. J. Potts, B. S., C. E., <i>Instr. Math.</i>
	J. M. Carson, jr., B. S., <i>Treas.</i>
	S. E. Andrews, LL. B., <i>Sec.</i>

**Texas Agricultural Experiment Station, College Station.**

Department of the State Agricultural and Mechanical College of Texas, under the control of the Board of Directors.

**STATION STAFF.**

H. H. Harrington, *Dir.*  
 W. C. Welborn, *V. Dir.; Agr.*  
 J. W. Carson, B. S., *Asst. to Dir., State Feed Insp.*  
 Mark Francis, D. V. M., *Vet.*  
 G. S. Fraps, PH. D., *Chem.; State Chem.*  
 O. M. Ball, PH. D., *Bot.*  
 J. C. Burns, B. S., *Animal Husb.*  
 H. Ness, M. S., *Hort.*  
 G. W. Herrick, B. S. A., *Ent.*  
 N. C. Hamner, B. S., *Asst. Chem.*

H. L. McKnight, *Asst. Agr.*  
 S. A. Waschka, *Supt. State Sta., Beeville.*  
 W. S. Hotchkiss, *Supt. State Sta., Troup.*  
 E. C. Carlyle, B. S., *Asst. Chem. (Feed Control).*  
 J. B. Rather, B. S., *Asst. Chem. (Feed Control).*  
 A. C. Deiler, *Asst. Chem. (Feed Control).*

**Prairie View State Normal and Industrial College, Prairie View.**

**GOVERNING BOARD.**

Board of Directors: K. K. Legett (*Pres.*), *Abilene*; T. D. Rowell (*V. Pres.*), *Jefferson*; A. Haidusek, *Lagrange*; W. P. Sebastian, *Breckenridge*; Walton Peteet, *Dallas*; L. L. McInnis, *Bryan*; R. T. Milner (*ex officio*), *Austin*; John M. Green, *Yoakum*.

**COURSES OF STUDY.**

A normal industrial course extending through four years and optional along agricultural or mechanical lines is offered. Diplomas are granted. Special courses in mechanic arts, agriculture and horticulture, and dairying are provided.

**BOARD OF INSTRUCTION.**

E. L. Blackshear, *Principal; Economics and History of Industry.*

C. W. Luckie, *Asst. Prin.; Engl. Hist.; Treas.*  
 J. T. Hodges, *Pedag.*  
 J. H. Crawford, *Nat. and Phys. Sci.*  
 John W. Hoffman, *Agr.*  
 N. A. Banks, *Math.*  
 C. H. Waller, *Asst. in Agr.*  
 Mrs. T. M. Hunt, *Matron.*  
 Effie E. Houseworth, *Sew., Millinery.*  
 Paul Bledsoe, (*Assoc.*) *Sci.; Libr.*  
 Miss A. L. Evans, *Asst. in Engl.*

R. L. Isaacs, (*Asst.*) *Math.*  
 W. C. Rollins, *Asst. in Engl.; Sec., Bookkeeper.*  
 Martha Rogers, *Dept. Cooking.*  
 Birdie Earle, *Dept. Cooking and Dom. Econ.*  
 J. H. Morrison, M. D., *Physician.*  
 Miss M. N. Chesnutt, *Asst. in Sew.*  
 W. B. Woodruff, *Farm Supt.*  
 Belle Drisdale, *Gen. Asst.*

**UTAH.**

**Agricultural College of Utah, Logan.**

**GOVERNING BOARD.**

Board of Trustees: Lorenzo N. Stohl (*Pres.*), *Brigham*; J. L. Coburn (*Financial Sec.*), *Logan*; A. M. Fleming (*Treas.*), *Logan*; Mrs. Susa Y. Gates, *Salt Lake City*; Thomas Smart,\* *Logan*; J. Q. Adams, *Logan*; Elizabeth C. McCune (*V. Pres.*), *Salt Lake City*; J. W. N. Whitecotton, *Provo*; A. S. Condon, *Ogden*; J. T. Caine, jr. (*Recording Sec.*), *Logan*.

## COURSES OF STUDY.

There are three-year manual-training courses in agriculture and domestic science, a three-year high-school course in commerce and a four-year manual-training course in mechanic arts, each leading to a certificate of graduation; four-year courses in agronomy, horticulture and entomology, animal husbandry and dairying, irrigation and drainage, veterinary science, forestry, domestic science, commerce, and general science, each leading to the degree of B. S.; a two-year college-preparatory course; also winter courses in agriculture (three weeks), domestic science and arts, mechanic arts, commerce, and forestry; and a summer school of five weeks.

## BOARD OF INSTRUCTION.

John A. Widtsoe, A. M., PH. D., *President; Chemistry.*

Elmer D. Ball, M. Sc., PH. D., <i>Zool., Ent.</i>	Ernest H. Favor, A. B., ( <i>Asst.</i> ) <i>Hort., Bot.</i>
Willard S. Langton, B. S., <i>Math.</i>	Joshua P. Goddard, A. B., ( <i>Asst.</i> ) <i>Acct.</i>
Joseph W. Jenson, S. B., <i>Irrig. Engin.</i>	Amanda Holmgren, B. S., ( <i>Asst.</i> ) <i>Engl.</i>
J. C. Hogenson, M. S. A., <i>Agron.</i>	Jos. E. Greaves, B. S., ( <i>Asst.</i> ) <i>Agr. Chem.</i>
Walter W. McLaughlin, <sup>a</sup> B. S., <i>Irrig. and Consulting Drainage.</i>	C. P. Smith, ( <i>Asst.</i> ) <i>Zool.</i>
Hyrum J. Frederick, D. V. M., <i>Vet. Sci.</i>	N. Alvin Pedersen, A. B., ( <i>Asst.</i> ) <i>Engl.</i>
Robert S. Northrop, B. S., <i>Hort., Bot.</i>	Geo. W. Thatcher, <i>Music.</i>
John T. Caine, III, M. S. A., <i>Animal Husb.</i>	Louie E. Linnartz, <i>Instr. Music.</i>
George Thomas, A. M., PH. D., <i>Econ.</i>	Wm. Spicker, <i>Instr. Violin.</i>
Frank R. Arnold, A. M., <i>Mod. Lang.</i>	S. E. Clark, <i>Instr. Piano, Cornet.</i>
Howard R. Perry, <i>Mil. Sci. and Tactics.</i>	Roy Rudolph, B. S., <i>Instr. Math.</i>
Robert Stewart, <sup>b</sup> B. S., <i>Chem.</i>	Frank S. Harris, <sup>b</sup> B. S., <i>Instr. Chem.</i>
William Peterson, B. S., <i>Geol., Phys.</i>	Edward P. Pulley, B. S., <i>Instr. Mech. Engin.</i>
Fred M. Walker, B. S., <i>Dir. Athletics.</i>	Sarah Huntsman, <i>Instr. Engl.</i>
John T. Caine, jr., B. S., <i>Registrar, Sec. of Faculty.</i>	Charlotte Kyle, A. M., <i>Instr. Engl., Hist.</i>
Christian M. Larsen, A. M., <i>Engl.</i>	Inez Powell, <sup>b</sup> B. S., <i>Instr. Dom. Sci.</i>
Samuel H. Goodwin, B. D., <i>Econ. Ornith.</i>	Chas. W. Porter, <sup>b</sup> B. S., <i>Instr. Chem.</i>
Lewis A. Merrill, B. S., ( <i>Salt Lake City</i> ) <i>Supt. Agr. Ext. Work.</i>	Gertrude Vibrans, <i>Instr. Sew.</i>
Clayton T. Teetzel, LL. B., <i>Phys. Ed.</i>	Jonathan S. Powell, <sup>b</sup> <i>Instr. Art.</i>
Edward G. Titus, M. S., <i>Ent.</i>	Isaac B. Evans, A. B., <i>Instr. Hist.</i>
Franklin L. West, B. S., <i>Phys.</i>	Hazel Love, B. S., <i>Instr. Dom. Sci.</i>
Blanche Cooper, B. S., ( <i>Assoc.</i> ) <i>Dom. Sci.</i>	G. M. Turpin, <i>Instr. Poultry Husb.</i>
Calvin Fletcher, B. Pn., ( <i>Asst.</i> ) <i>Art.</i>	W. L. Walker, B. S., <i>Instr. Chem.</i>
Rhoda B. Cook, ( <i>Asst.</i> ) <i>Dom. Arts.</i>	Harry C. Parker, S. B., <i>Instr. Geog.</i>
Elmer G. Peterson, <sup>b</sup> B. S., ( <i>Asst.</i> ) <i>Zool., Ent.</i>	J. R. Horton, <i>Asst. in Ent.</i>
T. E. Woodard, B. S., ( <i>Asst.</i> ) <i>Dairy Husb.</i>	Elizabeth C. Smith, B. L., <i>Libr.</i>
	Hattie Smith, <i>Asst. Libr.</i>
	John L. Coburn, B. S., <i>Financial Sec.; Instr. Math.</i>
	A. M. Davis, <i>Instr. Stenog., Typew.</i>
	Jean Crookston, <i>Asst. in Sew.</i>

<sup>a</sup> In the service of the U. S. Government. <sup>b</sup> On leave.



### Agricultural Experiment Station, Logan.

Department of the Agricultural College of Utah, under the control of the Board of Trustees.

#### STATION STAFF.

E. D. Ball, M. S., Ph. D., *Dir.; Ent.*  
 W. W. McLaughlin,<sup>a</sup> B. S., *Consulting Irrig. Engin.*  
 R. S. Northrop, B. S., *Hort.*  
 H. J. Frederick, D. V. M., *Vet.*  
 John T. Caine, III, M. S. A., *Animal Husb.*  
 Robert Stewart,<sup>b</sup> B. S., *Chem.*  
 J. C. Hogenson, M. S. A., *Agron.*  
 S. H. Goodwin, B. D., *Econ. Ornith.*  
 E. G. Titus, M. S., *Ent.*

L. A. Merrill, B. S., *Agron.; in charge of Arid Farms.*  
 T. E. Woodward, B. S., *Dairyman.*  
 J. E. Greaves, B. S., *Asst. Chem.*  
 E. H. Favor, A. B., *Asst. Hort.*  
 H. W. Crockett, *Asst. Hort.*  
 F. D. Farrell, B. S., *Asst. Agron.*  
 G. M. Turpin, *Asst. Poultryman.*  
 J. R. Horton, *Asst. Ent.*  
 W. L. Walker, B. S., *Asst. Chem.*

### VERMONT.

University of Vermont and State Agricultural College, Burlington.

#### GOVERNING BOARD.

Board of Trustees: M. H. Buckham\* (*Pres.*), *Burlington*; Gov. Geo. F. Prouty (*ex officio*), *Newport*; E. C. Mower (*Sec.*), *Burlington*; E. H. Powell (*Treas.*), *166 College street, Burlington*; H. H. Powers, *Morrisville*; J. H. Converse, *Philadelphia, Pa.*; Robert Roberts, *Burlington*; W. S. Webb, *Shelburne*; D. P. Kingsley, *New York City*; B. F. Fifield, *Montpelier*; N. W. Fisk, *Ile La Motte*; E. J. Ormsbee,\* *Brandon*; W. P. Dillingham, *Montpelier*; G. T. Chaffee, *Rutland*; H. C. Cleveland, *Coventry*; G. S. Fassett,\* *Enosburg*; Cassius Peck,\* *Burlington*; C. A. Catlin, *Providence, R. I.*; J. G. McCullough, *Bennington*; F. T. Kidder, *Woodstock*.

#### COURSES OF STUDY.

The four-year academical courses are eight in number: Classical, (B. A.) literary-scientific, (Ph. B.) commerce and economics, civil and sanitary engineering, electrical engineering, mechanical engineering, chemical, and agricultural (B. S.), the particular course being specified in the diploma. A two-year course in agriculture and an eight weeks' course in dairying are also offered.

#### BOARD OF INSTRUCTION.

Matthew H. Buckham, D. D., LL. D., *President; Political and Social Philosophy.*

George H. Perkins, Ph. D., *Dean Dept. Nat. Sci.; Nat. Hist., Geol., Anthropologist; State Geol.*

Samuel F. Emerson, Ph. D., *Hist., Sociol.*

Nathan F. Merrill, Ph. D., *Chem.; Dean Dept. Chem.*

Archibald L. Daniels, D. Sc., *Math.*

Josiah W. Votey, C. E., *Dean Dept. Engin.; Civil Engin.*

Lewis R. Jones, Ph. D., *Bot.*

Joseph L. Hills, Sc. D., *Dean Dept. Agr.; Agron.*

Frederick Tupper, jr., Ph. D., Litt. D., *Rhet., Engl. Lit.*

Allison W. Slocum, M. A., *Phys.*

Wm. H. Freedman, C. E., E. E., *Elect. Engin.*

Frank A. Rich, V. S., M. D., *Vet. Sci.*

R. M. Washburn, M. S., *Dairy Husb.*

<sup>a</sup> In the service of the U. S. Government. <sup>b</sup> On leave.

Albert F. Buck, *Intellectual and Moral Philos.*

Carlton B. Stetson, M. A., *German.*

William Stuart, M. S., *Hort.*

Edward Robinson, B. S., *Mech. Engin.*

Chas. W. Mixter, PH. D., *Polit. Econ.*

Elbridge C. Jacobs, B. S., *Chem. and Min.; Sec.*

A. B. Myrick, PH. D., *Romance Lang. and Lit.*

Daniel Tate, *Mil. Sci.*

James Eaton, *Instr. Mech. Pract.*

J. H. Rosenberg, (Asst.) *Math.*

H. A. Edson, B. S., *Instr. Bact.*

Wm. T. Jackman, A. M., *Instr. Econ. and Accounting; Sec.*

Henry F. Perkins, PH. D., (Asst.) *Biol. Zool.*

Henry B. Shaw, PH. B., LL. B., *Lect. in Coml. Law.*

W. F. Monroe, *Instr. Hyg.; Phys. Dir.*

Max. W. Andrews, M. A., (Asst.) *Rhet., Elocution; Registrar.*

Geo. H. Burrows, B. S., (Asst.) *Chem.*

H. E. Cunningham, A. B., *Instr. German.*

Wm. H. Alexander, *Lect. in Met.*

Clifford R. Pettis, F. E., *Lect. in For.*

Evan Thomas, A. M., *Instr. Math.*

Chas. A. Kern, B. S., *Instr. Chem.*

F. B. Wright, B. S., *Instr. Elect. Engin.*

Carl B. Brownell, A. B., B. S., *Instr. Mech. Engin.*

Edith E. Clarke, PH. B., *Lib.*

Cyrus G. Pringle, Sc. D., *Curator of Herbarium.*

### Vermont Agricultural Experiment Station, Burlington.

Department of University of Vermont and State Agricultural College, under the control of the Board of Trustees.

#### STATION STAFF.

J. L. Hills, Sc. D., *Dir.*

L. R. Jones, PH. D., *Bot.*

William Stuart, M. S., *Hort.*

F. A. Rich, V. S., M. D., *Vet.*

Cassius Peck, *Farm Supt.*

Chas. H. Jones, M. S., *Chem.*

R. M. Washburn, B. Agr., M. S., *Dairy Husb.*

C. R. Pettis, F. E., *Consulting For.*  
(Lake Clear Junction, N. Y.).

N. J. Giddings, B. S., *Asst. Bot.*

H. A. Edson, B. S., *Asst. Bot.*

R. E. Vaughan, B. S., *Asst. Hort.*

Harry L. Miner, B. S. in C., *Asst. Chem.*

W. F. Hammond, *Expert in Horse Breeding (Middlebury).*

A. P. Bigelow, *Dairyman.*

H. V. F. de Thestrup, *Gard.*

E. H. Powell, *Treas.*

### VIRGINIA.

Virginia Agricultural and Mechanical College and Polytechnic Institute,  
Blacksburg.

#### GOVERNING BOARD.

Board of Visitors: J. C. Carrington,\* *Charlotte Court House*; C. G. Kizer,\* *Norfolk*; J. S. Musgrave, *Pinopolis*; H. M. Smith, jr.,\* *Richmond*; P. F. St. Clair,\* *Bane*; L. E. Johnson, *Roanoke*; R. J. Noell, *East Radford*; L. D. Kline, *Vaughouse*; J. D. Eggleston (*Supt. of Public Instr., ex officio*), *Richmond*; J. W. Churchman (*Pres. State Bd. of Agr. and Immigration, ex officio*), *Staunton*; C. I. Wade (*Sec.*), *Christiansburg*.

## COURSES OF STUDY.

The courses of study are as follows: Four-year agricultural, horticultural, applied chemistry, preparatory medicine and veterinary science, applied geology, metallurgy and metallography, general science, civil engineering, mechanical engineering, electrical engineering, and mining engineering (B. S.); two-year course in practical agriculture and mechanics (certificate), and a farmers' winter course.

## BOARD OF INSTRUCTION.

Paul B. Barringer,\* M. D., LL. D., *President of the College.*

John M. McBryde, PH. D., SC. D. LL. D., <i>Pres. Emeritus.</i>	William H. Rasche, <i>Graphics.</i>
Ellison A. Smyth, jr., A. M., LL. D., <i>Biol., Zool.</i>	Carol M. Newman, M. A., PH. D., <i>Rhet.</i>
Theo. P. Campbell, A. M., <i>Mod. Lang.</i>	James B. McBryde, A. B., C. E., <i>Chem.</i>
Robert J. Davidson, A. M., <i>Agr. Chem.; Dean of Sci. Dept.</i>	Walter J. Quick, M. S., PH. D., <i>Animal Husb.</i>
Richard H. Hudnall, M. A., PH. D., <i>Engl.</i>	S. W. Fletcher, M. S., PH. D., <i>Expt. Agr.</i>
Charles E. Vawter, B. S., <i>Phys.</i>	Lyman E. Carrier, B. S., <i>Agron.</i>
John R. Parrott, <i>Mech. Arts.; Dir. of Shops.</i>	Roy J. Holden, M. S., <i>Geol. and Min.</i>
John Spencer, V. S., <i>Vet. Sci.</i>	H. S. Reed, M. S., PH. D., <i>Plant Path.</i>
George W. Walker, A. M., <i>Lat.</i>	Walton K. Brainerd, M. S., <i>Dairy Husb.</i>
Francis D. Wilson, M. S., PH. D., <i>Chem.</i>	Alfred W. Drinkard, M. S., ( <i>Assoc.</i> ) <i>Hist. and Econ.</i>
John E. Williams, M. A., PH. D., <i>Math.</i>	Arthur P. Spencer, B. S., ( <i>Assoc.</i> ) <i>Animal Husb.</i>
Harvey L. Price, M. S., <i>Hort.; Dean of Agr. Dept.</i>	Charles W. Holdaway, <i>Instr. Dairy Husb.</i>
Robert A. Marr, C. E., <i>Dean of Engin. Dept.; Civil Engin.</i>	Thomas B. Hutcheson, B. S., <i>Instr. Agron.</i>
George H. Jamerson, Capt., U. S. A., <i>Mil. Sci. and Tactics; Comdt. of Cadets.</i>	H. S. Stahl, B. S., <i>Instr. Biol.</i>
	Charles I. Wade, <i>Treas.</i>
	Mary G. Lacy, <i>Libr.</i>
	Wm. F. Henderson, M. D., <i>Surgeon.</i>

## Virginia Agricultural Experiment Station, Blacksburg.

Department of Virginia Agricultural and Mechanical College and Polytechnic Institute, under the control of the Board of Visitors.

## STATION STAFF.

S. W. Fletcher, M. S., PH. D., <i>Dir.</i>	W. A. P. Moncure, M. S., <i>Hort. By-product Invest.</i>
H. L. Price, M. S., <i>Hort.</i>	H. H. Hill, <i>Asst. Chem.</i>
W. B. Ellett, M. S., PH. D., <i>Chem.</i>	E. B. Fred, M. S., <i>Asst. Bact.</i>
W. J. Quick, M. S., PH. D., <i>Animal Husb.</i>	C. W. Holdaway, <i>Asst. Dairyman.</i>
Lyman E. Carrier, B. S., <i>Agron.</i>	J. R. Hutcheson, B. S., <i>Asst. Plat Expts.</i>
W. K. Brainerd, M. S., <i>Dairyman.</i>	A. W. Drinkard, jr., M. S., <i>Asst. Hort.</i>
H. S. Reed, M. S., PH. D., <i>Plant Path.</i>	B. G. Anderson, B. S., <i>Supt. Tobacco Expts.</i>
A. P. Spencer, B. S., <i>Asst. Animal Husb.</i>	W. L. Mallory, B. S., <i>Asst. Animal Husb.</i>
T. B. Hutcheson, M. S., <i>Supt. Plat Expts.</i>	C. I. Wade, <i>Treas.</i>
S. M. Herrick, B. S. A., <i>Asst. Chem.</i>	

### Virginia Truck Experiment Station, Norfolk.

Cooperating with the Virginia Agricultural Experiment Station and the United States Department of Agriculture.

#### GOVERNING BOARD.

C. W. Heater (*Pres.*), *Middletown*; P. B. Barringer, *Blacksburg*; W. B. Carney, *Churchland*; J. C. Carrington, *Charlotte Court House*; J. W. Churchman (*Pres. State Bd. of Agr. and Immigration, ex officio*), *Staunton*; John T. Griffin, *Portsmouth*.

#### STATION STAFF.

T. C. Johnson, B. S. Agr., A. M., <i>Supt.</i>	J. I. Milstead, <i>Asst. in Truck Crops.</i>
C. H. Popenoe, B. S., <i>Asst. in Ent.</i>	George R. Parrish, <i>Treas.</i>

#### COOPERATING STAFF.

L. C. Corbett, M. S., <i>Hort., U. S. Dept. of Agriculture.</i>	F. H. Chittenden, D. Sc., <i>Ent., U. S. Dept. of Agriculture.</i>
W. A. Orton, M. S., <i>Path., U. S. Dept. of Agriculture.</i>	

### Hampton Normal and Agricultural Institute, Hampton.

#### GOVERNING BOARD.

Board of Trustees: R. C. Ogden (*Pres.*), *New York City*; H. B. Frissell (*Sec.*), *Hampton*; Alexander McKenzie (*First V. Pres.*), *Cambridge, Mass.*; W. N. McKicar (*Second V. Pres.*), *Providence, R. I.*; G. F. Peabody, *New York City*; F. G. Peabody, *Cambridge, Mass.*; D. H. Greer, *New York City*; C. E. Bigelow, *New York City*; A. C. James, *New York City*; W. J. Schieffelin, *New York City*; L. L. Lewis, *Richmond*; W. W. Frazier, *Philadelphia*; J. W. Cooper, *New York City*; A. M. Huntington, *New York City*; B. B. Munford, *Richmond*; Seth Low, *New York City*; H. H. Hanna, *Indianapolis, Ind.*

State Curators: N. W. Nock, *Ananock*; H. L. Schmelz, *Hampton*; Maryus Jones, *Newport News*; J. C. Carter, *Houston*; W. P. Burrell, *Richmond*; Wm. M. Reid, *Portsmouth*.

#### COURSES OF STUDY.

The academic course of study requires four years for completion, and a diploma is given on graduation. There are also trade and agricultural courses for undergraduates, requiring three years. The postgraduate courses are agriculture, three years; trades, three years; normal, domestic science and art, two years; and business, one year.

#### BOARD OF INSTRUCTION.

Hollis B. Frissell, D. D., LL. D., *Principal*; *Mental Philosophy.*

Herbert B. Turner, D. D., <i>Chaplain</i> ; <i>Bible Lessons.</i>	Martha M. Waldron, M. D., <i>Resident Physician</i> ; <i>Physiol. and Hyg.</i>
Charles K. Graham, <i>Dir. Agr. Dept.</i>	Elizabeth Hyde, <i>Lady Prin.</i>
Albert Howe, <i>Supt. of Grounds and Buildings.</i>	Frank K. Rogers, <i>Dir. Armstrong and Slater Memorial Trade School</i> ;
Wm. H. Scoville, <i>Sec.</i>	<i>Treas.</i>



- Geo. P. Phenix, *in charge of Normal and Academic Dept.; V. Prin.*  
 Robt. R. Moton, *Comdt. of Cadets.*  
 Clarissa A. Adams, *Lit., Bible.*  
 Wm. A. Aery, *Civics, Hist.*  
 Lynn F. Ayer, *Instr. Animal Husb.*  
 Bernette Bacheler, *in charge of Dom. Sci. Dept.*  
 Sarah L. Baker, *Engl., Reading.*  
 Orissa M. Baxter, *Dom. Sci.*  
 Susan A. Berry, *Asst. in Dairy, Shellbanks Farm.*  
 Maria W. Bishop, *Engl., Rhet., Geog.*  
 George W. Blount, *Bookkeeping.*  
 Mary A. Bradley, *Matron; Sew.*  
 Mary B. Briggs, *Bible Hist.*  
 Ada Catlin, *Matron.*  
 Sarah A. Clements, *in charge of Diet Kitchen; Matron.*  
 Ethel V. Cooledge, *Instr. Vocal Music.*  
 Jessie Coope, *Gymnastics.*  
 Bessie H. Cooper, *Sew.*  
 George J. Davis, *Asst. Mgr. Home Farm.*  
 Jennie E. Davis, *in charge of Nature Study Bureau and Publications.*  
 James A. Dingus, *Asst. Instr. Animal Husb. and Agr.*  
 Bessie L. Drew, *Instr. Vocal Music.*  
 Mildred L. Eaton, *Cooking.*  
 Ada Enderle, *Asst. in Laundry.*  
 J. E. England, *in charge of Laundry.*  
 Almancey L. Evans, *Asst. Instr. Agr., Shellbanks Farm.*  
 Margaret Fletcher, *El. Branches, Shellbanks Farm.*  
 Clarence Fowler, *Hort.*  
 Mary T. Galpin, *in charge of Abby May Home.*  
 Fannie Gibson, *Instr. Sew., Cooking.*  
 Annie M. Goodrich, *Engl., Bible, Hist.*  
 Ethel Gowans, *Instr. Agr.*  
 Henrietta L. Graves, *Phys., El. Sci.*  
 Jennie H. Hart, *Sew.*  
 Leonora E. Herron, *Libr.*  
 Mary E. Houston, *Current Events, Engl. Lit., Geog., Arith.*  
 Katherine E. Howard, *Cooking.*  
 Ethelyn L. Hull, *Math., Engl., Reading.*  
 Charles S. Isham, *Phys.*  
 Mrs. Lucy M. B. Jameson, *Matron.*  
 Margaret B. Jameson, *Arith., Reading, Engl.*  
 Addie Jayne, *Engl., Math., Geog., Lit.*  
 Emma Johnston, *Math.*  
 Thomas J. Jones, *in charge of Hist., Econ., Civics.*  
 Henry B. Jordan, *Asst. Mgr. of Shellbanks Farm.*  
 Mary Lang, *Asst. in Laundry.*  
 Howard B. Lewis, *Instr. Night School.*  
 Anna S. Low, *Engl., Phonics, Physiol.*  
 Flora F. Low, *in charge of Math.*  
 Helen W. Ludlow, *Editor Southern Workman.*  
 Levi C. Lyman, *Instr. Agr.*  
 Mary McLean, *Instr. Night School.*  
 Leigh R. Miner, *Draw.*  
 Grace E. Morgan, *Arith., Geog., Reading, Engl., Physiol.*  
 Grace L. Morrison, *Math., Engl., Geog.*  
 Mary W. Nettleton, *Bible, Geog., Engl.*  
 Caroline D. Pratt, *in charge of Dom. Art. Dept.*  
 Alice M. Price, *El. Sci., Physiol.*  
 Eliza Quick, *Dom. Sci.*  
 Elisabeth H. Riegger, *Hist., Physiol., Civics.*  
 Adaline B. Rockwell, *Asst. Libr.*  
 Mrs. Lucy M. Sisson, *Matron at Shellbanks Farm.*  
 James T. Smith, *Florist.*  
 Clara M. Snow, *in charge of Shellbanks Farm School.*  
 Mrs. J. A. Stevens, *Matron.*  
 Gertrude Sugden, *Asst. Libr.*  
 William S. Sweetser, *M. S., Instr. Chem., Animal Indus.*  
 E. Jeannette Taylor, *Matron.*  
 Wm. O. Tessman, *Instr. Band Music.*  
 Ida A. Tourtellot, *Draw., Engl., Math., Geog.*  
 Helen L. Townsend, *Matron in charge of Winona Lodge.*  
 Jessie A. Townsend, *Matron.*  
 Margaret W. Twitchell, *Matron.*  
 Marie Ulsamer, *Math.*  
 John Urquhart, *Animal Indus.*  
 Capt. Allen Washington, *Asst. Comdt. of Cadets.*  
 Barton White, *Instr. Gard.*  
 Sarah White, *Sew.*  
 Susan P. H. Winslow, *Engl., Phonics, El. Sci.*

## WASHINGTON.

## The State College of Washington, Pullman.

## GOVERNING BOARD.

Board of Regents: Gov. Albert E. Mead (*ex officio*), *Olympia*; Lee A. Johnson (*Pres.*), *Sunnyside*; J. J. Browne (*V. Pres.*), *Spokane*; J. S. Anderson,\* *Sunnyside*; Peter McGregor,\* *Hooper*; Frank J. Barnard\* (*Treas.*), *429 Walker Building, Seattle*; E. A. Bryan (*Sec., ex officio*), *Pullman*.

## COURSES OF STUDY.

Four-year courses of study, leading to the degrees of B. S. and B. A., are offered in the following lines: Mathematics and civil engineering, domestic economy, pharmacy, mining engineering, chemistry, botany, zoology, agronomy, animal husbandry, dairying, horticulture, veterinary science, English language and literature, economic science and history, electrical engineering, mechanical engineering, geology, modern languages, Latin, and education; three-year courses in veterinary science (D. V. S.) and in music (B. Mus.); two-year courses in pharmacy (Ph. G.), forestry, bookkeeping, and stenography; one-year course in artisan work; short courses in agriculture, dairying, assaying; and a six weeks' summer science school for teachers.

## BOARD OF INSTRUCTION.

Enoch A. Bryan, A. M., LL. D., *President; History and Political Science.*

Osmar L. Waller, PH. M., *Math., Civil and Irrig. Engin.*

Elton Fulmer, M. A., *Chem.; State Chem.*

Sofus B. Nelson, D. V. M., *Vet. Sci.; State Vet.*

Charles A. Barry, M. A., *Mod. Lang.*

Albert E. Egge, PH. D., *Engl. Lit.*

Walter G. Beach, A. M., *Econ. Sci. and Hist.*

R. Kent Beattie, B. S., M. A., *Bot.*

Walter S. Thornber, M. S., *Hort.*

Edith F. McDermott, *Dom. Econ.*

Hiram C. Sampson, A. B., *Ed., Agr. Pedag.*

George Severance, B. S., *Agron.; Actg. Head Dept. of Agr.*

Axel L. Melander, M. S., *Ent.*

Harry E. Mitchell, Capt., U. S. A., *Mil. Sci. and Tactics.*

Charles E. Stangeland, PH. D., *Polit. Econ.*

William J. Roberts, A. M., (*Assoc.*) *Math., Civil Engin.*

Roscoe W. Thatcher, B. S., M. A., (*Assoc.*) *Chem.; Actg. Supt. of Farmers' Insts.*

W. T. McDonald, M. S. A., (*Assoc.*) *Animal Husb.*

Frederick B. Hadley, D. V. M., (*Asst.*) *Anat. and Surgery.*

Wm. T. Shaw, B. Agr., M. S., (*Asst.*) *Zool.; Curator of Museum.*

Emery E. Gaw, PH. D., (*Asst.*) *Engl.*

Wyatt E. Ralston, D. V. M., (*Asst.*) *Physiol. and Bact.*

H. B. Humphrey, PH. D., (*Asst.*) *Bot.*

Jacob J. Thiel, A. B., (*Asst.*) *German.*

Howard B. Berry, M. S., *Soil Phys.*

Ira P. Whitney, B. S., *Instr. Dairying.*

Albert G. Craig, B. S., *Instr. Hort.*

Lucy G. MacKay, B. S., PH. G., (*Asst.*) *Dom. Sci.*

Olive McKay, *Instr. Dom. Art.*

Leila W. Hunt, B. S., *Instr. Dom. Econ.*

Samuel W. Collett, M. S., *Instr. Bot.*

E. O. Siecke, B. S. F., *Instr. For.*

C. H. Goetz, B. S., *Instr. For.*

Clare C. Todd, B. S., *Instr. Chem.*

H. L. Walters, B. S., *Instr. Chem.*

Oscar M. Olson, *Instr. Farmers' Insts.*

Justinus J. L. Heldring, D. C. M., *Instr. Vet. Sci.*

Helen G. Saxton, *Libr.*

Stella M. Wilson, *Asst. Libr.*

Oscar Erickson, *Flor.*

## Washington Agricultural Experiment Station, Pullman.

Department of the State College of Washington, under the control of the Board of Regents.

R. W. Thatcher, B. S., M. A., <i>Dir.</i> ;	W. H. Lawrence, A. B., M. S., <i>Plant Chem.</i>
Elton Fulmer, M. A., <i>State Chem.</i>	W. E. Ralston, D. V. M., <i>Asst. Vet.</i>
S. B. Nelson, D. V. M., <i>Vet.</i>	A. G. Craig, B. S., <i>Asst. Hort.</i>
O. L. Waller, Ph. M., <i>Irrig. Eng.</i>	W. T. Shaw, B. Agr., M. S., <i>Asst. Zool.</i>
W. S. Thornber, M. S., <i>Hort.</i>	H. B. Humphrey, Ph. D., <i>Asst. Bot.</i>
R. Kent Beattie, B. S., M. A., <i>Bot.</i>	G. A. Olson, B. S. A., M. S., <i>Asst. Chem.</i>
A. L. Melander, M. S., <i>Ent.</i>	W. T. McDonald, M. S. A., <i>Asst. Animal Husb.</i>
Geo. Severance, B. S., <i>Agron.</i>	R. N. Miller, B. S., <i>Asst. Supt. Substa., Puyallup.</i>
C. W. Lawrence, B. S., <i>Cercal. list.</i>	
Ira P. Whitney, B. S., <i>Dairy Expert.</i>	

## WEST VIRGINIA.

College of Agriculture of West Virginia University, Morgantown.

## GOVERNING BOARD.

Board of Regents: E. M. Grant,\* *Morgantown*; C. E. Haworth,\* *Huntington*; L. J. Williams,\* *Lewisburg*; C. M. Babb,\* *Falls*; J. R. Trotter\* (*Pres.*), *Buckhannon*; F. P. McNell,\* *Wheeling*; D. C. Galliher,\* *Charleston*; J. B. Finley,\* *Parkersburg*; T. P. Jacobs,\* *New Martinsville*.

## COURSES OF STUDY.

The four-year courses with degrees are: All courses leading to general culture, B. A. and B. S.; course in mechanical engineering and electrical engineering, B. S. E. E., B. S. M. E.; course in civil engineering, B. S. C. E.; mining engineering, B. S. E. M.; scientific course in agriculture, B. S. Agr.; and the law course, LL. B. The following courses are also offered: Veterinary science (three years), leading to D. V. S.; agriculture (three years); law (two years); commercial (two years); agriculture (one year); preparatory, graduate, music, art, special courses; twelve weeks' courses in agriculture, horticulture, animal industry, poultry industry, and dairying; and a six weeks' summer school.

## BOARD OF INSTRUCTION.

Daniel B. Purinton, Ph. D., LL. D., <i>President of the University; Philosophy.</i>	
Thomas C. Atkeson, Ph. D., <i>Dean Agr. College; Agr.</i>	Thos. E. Hodges, M. A., <i>Phys.; Asst. Treas.</i>
Alexander R. Whitehill, Ph. D., <i>Gen. and Anal. Chem.; Treas.</i>	Robert A. Armstrong, A. M., <i>Engl. Lang. and Lit.</i>
John A. Eiesland, Ph. D., <i>Math.</i>	Chas. H. Patterson, A. M., <i>Rhet.</i>
Samuel B. Brown, A. M., <i>Geol., Min.</i>	Bert H. Hite, M. S., <i>Agr. Chem.</i>
A. M. Reese, Ph. D., <i>Zool.</i>	W. E. Rumsey, B. S. Agr., <i>Econ. Bot.</i>
H. A. Eaton, A. B., LL. B., <i>Capt., Comdt. of Cadets; Mil. Sci.</i>	W. M. Munson, Ph. D., <i>Hort.</i>
W. H. Baumgartner, A. M., <i>Instr. German.</i>	Alfred J. Hare, M. A., <i>Lat.; Prin. Prep. School; Registrar.</i>
Wm. J. Leonard, ( <i>Assoc.</i> ) <i>Fine Arts.</i>	C. A. Lueder, D. V. S., <i>Instr. Dairying and Animal Husb.</i>

F. R. Whipple, M. V. D., <i>Instr. Vet. Sci.</i>	Frederick L. Kortright, D. Sc., ( <i>Assoc.</i> ) <i>Chem.</i>
C. C. Holden, M. A., <i>Instr. Romance Lang.</i>	A. W. Nolan, A. B., ( <i>Asst.</i> ) <i>Hort., For.</i>
Frederick W. Truscott, PH. D., <i>Germanic Lang. and Lit.</i>	John L. Sheldon, PH. D., <i>Bact., Plant Path., Bot.</i>
Madison Stathers, PH. D., <i>Romance Lang. and Lit.</i>	Clarence Post, A. B., <i>Instr. Phys.</i>
Horace Atwood, M. S. AGR., <i>Instr. Poultry Indus.</i>	D. W. Working, B. S., A. M., <i>Supt. Agr. Ext.</i>
	N. L. Goodrich, A. B., B. L. S., <i>Libr.</i>

**West Virginia Agricultural Experiment Station, Morgantown.**

Department of West Virginia University, under the control of the Board of Regents.

STATION STAFF.

J. H. Stewart, M. A., <i>Dir.; Agr.</i>	J. H. Berghuis Krak, <i>Asst. Chem.</i>
B. H. Hite, M. S., <i>V. Dir.; Chem.</i>	Chas. E. Weakley, <i>Asst. Chem.</i>
W. M. Munson, PH. D., <i>Hort.</i>	H. E. Williams, <i>Spécial Agt. on Highways.</i>
W. E. Rumsey, B. S. AGR., <i>Ent.</i>	Martha A. Stewart, <i>Libr.</i>
Horace Atwood, M. S. AGR., <i>Asst. Agr.</i>	A. R. Whitehill, PH. D., <i>Treas.</i>
Frank B. Kunst, A. B., <i>Asst. Chem.</i>	M. A. Jull, B. S. A., <i>Poultryman.</i>
Fred E. Brooks, <i>Assoc. Ent.</i>	
A. L. Dacy, B. Sc., <i>Asst. Hort.</i>	

**The West Virginia Colored Institute, Institute.**

GOVERNING BOARD.

Board of Regents: C. B. Scott (*Pres.*), *Bethany*; J. M. Hazelwood (*Treas.*), *Charleston*; Thos. C. Miller, *Charleston*; B. L. Butcher, *Fairmont*; Howard Harper, *Keystone*; Joseph Gray (*Sec.*), *Elizabeth*; John L. Thornhill, *Charleston*.

COURSES OF STUDY.

The courses of study are: Agriculture (requiring four years for completion), mechanical, normal, and commercial, two years.

BOARD OF INSTRUCTION.

J. McHenry Jones, A. M., *President; Pedagogy and Economics.*

James M. Canty, <i>Supt. of Mech. Indus.</i>	Bessie V. Morris, <i>Cooking.</i>
S. H. Guss, A. B., <i>Prin. Normal Dept.</i>	William H. Lowry, <i>Comdt. of Cadets; Math.</i>
Austin W. Curtis, B. AGR., <i>Agr., Bot.</i>	Mrs. Margaret M. Lowry, <i>Millinery, Asst. in Sew.</i>
Byrd Prillerman, B. S. C., A. M., <i>Engl.; Libr.</i>	Emma Cousins-Dorsey, <i>Matron.</i>
Charles E. Jones, <i>Nat. Sci., Hist.</i>	Albert G. Brown, <i>Mech. and Freehand Draw.</i>
William A. Spriggs, <i>Carpentry; Sec.</i>	W. S. Brown, <i>Pract. Farmer.</i>
Mrs. Elizabeth M. Jones, <i>Music; Asst. Libr.</i>	R. C. Howard, <i>Pract. Farmer.</i>
Mary Eubaak, <i>Head of Dept. of Dom. Sci. and Arts; Asst. Sec., Instr. Sew., Dressmaking.</i>	



## WISCONSIN.

College of Agriculture of the University of Wisconsin, *Madison*.

## GOVERNING BOARD.

Board of Regents: W. D. Hoard (*Pres.*), *Fort Atkinson*; Geo. F. Merrill, *Ashland*; D. P. Lamereaux, *Beaver Dam*; President of University,\* (*ex officio*), *Madison*; Chas. P. Cary (*State Superintendent of Public Instruction, ex officio*), *Madison*; L. S. Hanks, *Madison*; J. F. Trotman, *Milwaukee*; Edward Evans, *La Crosse*; M. E. McCaffrey (*Sec.*), *Madison*; Magnus Swenson, *Madison*; Pliny Norcross, *Janesville*; E. Lloyd-Jones, *Spring Green*; F. C. Thwaites, *Milwaukee*; Mrs. Florence G. Buckstaff, *Oshkosh*; G. Keller, *Appleton*; A. P. Nelson, *Grantsburg*.

## COURSES OF STUDY.

The long course requires four years, leading to the degree of B. S., the middle course in agriculture covers two years, and the short course covers two terms of fourteen weeks each. A certificate is granted to those completing these courses. The winter dairy course lasts twelve weeks and requires for admission one season's previous training in a creamery or cheese factory. A summer dairy course is offered to a limited number of students, who will be admitted without previous factory training and may remain the whole season. To secure a dairy certificate the student must have two seasons' actual practice in a factory, one of which must follow his work at the dairy school. A two-week farmers' course, limited strictly to persons who are at least 25 years of age, and a special training course for teachers, are also offered.

BOARD OF INSTRUCTION.<sup>a</sup>

Chas. Richard Van Hise, PH. D., LL. D., *President of the University*.

H. L. Russell, PH. D., <i>Dean College of Agr.</i>	Louis E. Reber, M. S., <i>Dir. of Ext. Work.</i>
Wm. A. Henry, D. Agr., D. Sc., <i>Agr. Emeritus.</i>	Geo. McKerrow, <i>Supt. Farmers' Insts.</i>
Stephen M. Babcock, PH. D., LL. D., <i>Agr. Chem.</i>	Ransom A. Moore, <i>Agron.</i>
D. H. Otis, M. S., ( <i>Assoc.</i> ) <i>Animal Nutrition; Asst. to Dean.</i>	Henry C. Taylor, PH. D., ( <i>Assoc.</i> ) <i>Agr. Econ.</i>
Mazyck P. Ravenel, M. D., <i>Bact.</i>	Edwin G. Hastings, M. S., ( <i>Asst.</i> ) <i>Bact.</i>
Edward H. Farrington, M. S., <i>Dairy Husb.</i>	J. L. Sammis, PH. D., ( <i>Asst.</i> ) <i>Dairy Husb.</i>
Andrew R. Whitson, B. S., <i>Soils and Drainage.</i>	Chas. W. Stoddart, A. M., ( <i>Asst.</i> ) <i>Soils.</i>
Emil P. Sandsten, PH. D., <i>Hort., Econ. Ent.</i>	R. H. Denniston, PH. G., PH. D., ( <i>Asst.</i> ) <i>Bot.</i>
Fritz W. Woll, PH. D., <i>Agr. Chem.</i>	E. V. McCollum, PH. D., ( <i>Asst.</i> ) <i>Agr. Chem.</i>
E. B. Hart, B. S., <i>Agr. Chem.</i>	James G. Fuller, B. S., ( <i>Asst.</i> ) <i>Animal Husb.</i>
Geo. C. Humphrey, B. S., <i>Animal Husb.</i>	Charles A. Ocock, B. S., ( <i>Asst.</i> ) <i>Agr. Engin.</i>
Alexander S. Alexander, M. D. C., V. S., <i>Vet. Sci.; in charge of Dept. of Horse Breeding.</i>	James G. Moore, M. S., ( <i>Asst.</i> ) <i>Hort.</i>
	J. Clyde Marquis, B. S. A., <i>Editor.</i>

<sup>a</sup> Includes only instructors in subjects directly relating to agriculture. Many other members of the university faculty give instruction to agricultural students pursuing the course leading to the degree of B. S.

- Gustav H. Benkendorf, *Instr. Dairy Husb.*  
 William E. Tottingham, B. S., *Instr. Agr. Chem.*  
 Frank Kleinheinz, *Instr. Animal Husb.*  
 A. L. Stone, *Instr. Agron.*  
 Edw. R. Jones, B. S., *Instr. Soils and Drainage.*  
 W. G. Marquette, B. S., *Instr. Bot.*  
 Conrad Hoffmann, B. S., *Instr. Agr. Bact.*  
 James G. Milward, B. S., *Instr. Hort.*  
 C. P. Norgord, B. S. A., *Instr. Agron.*  
 W. H. Cooper, B. S. A., *Instr. Dairy Husb.*  
 W. W. Sylvester, B. S. AGR., *Instr. Agr. Engin.*  
 J. W. Moore, *Asst. in Dairy Husb.*  
 J. J. Singler, *Asst. in Dairy Husb.*  
 J. L. Frank, *Asst. in Dairy Husb.*  
 Gottlieb Marty, *Asst. in Dairy Husb.*  
 J. Jacobs, *Asst. in Dairy Husb.*  
 Geo. Garlid, *Asst. in Dairy Husb.*  
 H. Haskins, *Asst. in Dairy Husb.*  
 Merle I. Tuttle, *Asst. in Dairy Husb.*  
 H. L. Post, *Asst. in Dairy Husb.*  
 Lucian Pierce, *Asst. in Dairy Husb.*  
 H. D. M. Joblivette, *Asst. in Bot.*  
 A. J. Rogers, jr., B. S. AGR., *Asst. in Hort.*  
 J. Accola, *Asst. in Animal Husb.*  
 O. J. Delwiche, *Asst. in Animal Husb.*  
 C. J. McComb, *Asst. in Animal Husb.*  
 B. W. Hammer, B. S. AGR., *Asst. in Agr. Bact.*  
 Shinkichi K. Suzuki, B. S., *Asst. in Agr. Chem.*  
 Harry Steenbock, B. S. A., *Asst. in Agr. Chem.*  
 Roy R. Marshall, B. S. A., *Asst. in Soils.*  
 Harlow L. Walster, B. S. A., *Asst. in Soils.*  
 H. Sandell, *Asst. in Soils.*  
 Louise M. Jahns, B. S., *Asst. in Soils.*  
 Clarence S. Hean, *Libr.*

**Agricultural Experiment Station of the University of Wisconsin, Madison.**

Department of the University of Wisconsin, under the control of the Board of Regents.

**STATION STAFF.**

- H. L. Russell, PH. D., *Dir.*  
 W. A. Henry, D. AGR., D. SC., *Agr. Emeritus.*  
 S. M. Babcock, PH. D., LL. D., *Asst. Dir.; Chief Chem.*  
 E. H. Farrington, M. S., *Dairy Husb.*  
 M. P. Ravenel, M. D., *Bact.*  
 A. R. Whitson, B. S., *Soil Phys.*  
 E. P. Sandsten, PH. D., *Hort.*  
 G. C. Humphrey, B. S., *Animal Husb.*  
 F. W. Woll, PH. D., *Agr. Chem.*  
 E. B. Hart, B. S., *Agr. Chem.*  
 R. A. Moore, *Agron.*  
 A. S. Alexander, M. D. C., V. S., *Vet., Horse Breeding.*  
 D. H. Otis, M. S., *Animal Nutrition.*  
 C. A. Ocock, B. S., *Agr. Engin.*  
 E. G. Hastings, M. S., *Agr. Bact.*  
 C. W. Stoddart, A. M., *Asst. Soil Phys.*  
 J. L. Sammis, PH. D., *Asst. Dairy Husb.*  
 Jas. G. Milward, B. S., *Asst. Hort.*  
 Jas. G. Moore, M. S., *Asst. Hort.*  
 W. E. Tottingham, B. S., *Asst. Agr. Chem.*  
 Jas. G. Fuller, B. S., *Asst. Animal Husb.*  
 J. C. Marquis, B. S. A., *Editor.*  
 A. L. Stone, *Asst. Agron.*  
 C. P. Norgord, B. S. A., *Asst. Agron.*  
 E. R. Jones, B. S., *Asst. in Soils and Drainage.*  
 E. V. McCollum, PH. D., *Agr. Chem.*  
 S. K. Suzuki, B. S., *Asst. Agr. Chem.*  
 H. Steenbock, B. S. A., *Asst. Agr. Chem.*  
 A. J. Rogers, jr., B. S. AGR., *Asst. Hort.*  
 G. H. Benkendorf, *Asst. Dairy Husb.*  
 Frank Kleinheinz, *Asst. Animal Husb.; Shepherd.*  
 Conrad Hoffmann, B. S., *Asst. Agr. Bact.*

E. J. Delwiche, B. S., <i>Supt. Northern Wisconsin Agr. Substa., Ashland.</i>	R. R. Marshall, B. S. A., <i>Asst. in Soils.</i>
J. Accola, <i>Asst. Animal Husb.</i>	H. L. Walster, B. S. A., <i>Asst. in Soils.</i>
O. J. Delwiche, <i>Asst. Animal Husb.</i>	Louise M. Jahns, B. S., <i>Asst. in Soils.</i>
R. T. Harris, <i>Asst. in Dairy Tests, Fert. and Feed Insp.</i>	W. A. Brannon, <i>Asst. Chem. Fert. and Feed Insp.</i>
J. J. Singler, <i>Asst. Dairy Husb.</i>	G. S. Hine, B. S. A., <i>Collector, Fert. and Feed Insp.</i>
O. G. Malde, <i>Asst. in Cranberry Invest., Grand Rapids.</i>	B. W. Hammer, B. S., <i>Asst. in Bact. Lab.</i>
G. Marty, <i>Asst. Dairy Husb.</i>	C. S. Hean, <i>Libr.</i>

## WYOMING.

College of Agriculture and Mechanic Arts of the University of Wyoming.

*Laramie.*

## GOVERNING BOARD.

Board of Trustees: Otto Gramme \* (*Pres.*), *Laramie*; T. F. Burke (*V. Pres.*), *Cheyenne*; F. S. Burrage (*Sec.*), *Laramie*; J. F. Crawford, *Saratoga*; A. C. Jones \* (*Treas.*), *Laramie*; Gibson Clark, *Cheyenne*; Elizabeth A. Stone, *Evans-ton*; H. L. Stevens, \* *Laramie*; H. A. Coffeen, *Sheridan*; A. J. Mokler, *Casper*; A. D. Cooke (*State Supt. of Public Instr., ex officio*), *Cheyenne*; Charles O. Merica \* (*Pres. Univ., ex officio*), *Laramie*.

## BOARD OF INSTRUCTION.

The following courses are offered, viz: Four-year agricultural, mechanical engineering, mining engineering, irrigation engineering, and commerce (B. S.), one and two year courses and a twelve weeks' course in agriculture; two weeks' courses in irrigation, live-stock management and judging, and correspondence courses.

## BOARD OF INSTRUCTION.

Charles O. Merica, A. M., LL. D., *President of the University.*

J. D. Towar, M. S., <i>Agr.</i>	Minnie A. Stoner, B. S., <i>Dom. Sci.; Adviser for Women.</i>
Aven Nelson, Ph. D., <i>Biol.</i>	Lotta A. Crawford, B. S., <i>Asst. in Dom. Sci.</i>
Henry Merz, A. M., <i>German, Social Sci.</i>	Alfred C. Dart, M. S., <i>Geol.</i>
Charles B. Ridgaway, A. M., <i>Math.</i>	C. E. Holder, Ph. D., <i>School of Commerce.</i>
Arthur E. Bellis, M. S., <i>Phys.</i>	John C. Fitterer, B. S. IN C. E., <i>Civil and Irrig. Engin.</i>
Agnes M. Wergeland, Ph. D., <i>French, Hist.</i>	Otto L. Prien, M. D. V., <i>Instr. Vet. Sci.</i>
Helen Middlekauff, <i>Engl.</i>	L. B. McWethy, B. S., <i>Instr. Agron.</i>
Henry G. Knight, A. M., <i>Chem.</i>	Alpheus D. Faville, B. S., <i>Instr. Animal Husb.</i>
June E. Downey, A. M., <i>Philos., Engl.</i>	Robert J. Cowper, <i>Asst. in Industrials.</i>
Grace R. Hebard, Ph. D., <i>Polit. Econ.</i>	
E. G. Hoefer, B. S., <i>Mech. and Elect. Engin.</i>	
Harol D. Coburn, Lieut. U. S. A., <i>Mil. Sci. and Tactics; Dir. Phys. Training.</i>	

Wyoming Agricultural Experiment Station, *Laramie*.

Department of the University of Wyoming, under the control of the Board of Trustees.

## STATION STAFF.

J. D. Towar, M. S., *Dir.; Agr., Hort.;*  
*in charge of Farmers' Insts.*  
 Aven Nelson, PH. D., *Bot.*  
 C. B. Ridgaway, A. M., *Phys., Met.*  
 H. G. Knight, A. M., *Chem.*  
 Grace R. Hebard, A. M., PH. D., *Sec.*  
 J. C. Fitterer, B. S. IN C. E., *Irrig.*  
*Engin.*

L. B. McWethy, B. S., *Agron.*  
 A. D. Faville, B. S., *Animal Husb.*  
 John A. Hill, B. S., *Wool Specialist.*  
 O. L. Prien, M. D. V., *Vet.*  
 Frank E. Hepner, M. S., *Asst. Chem.*  
 Frank A. Smith, B. S., *Asst. Chem.*





# INDEX OF NAMES.

- Abbott, F. H., 54.  
 Abbott, G. T., 70.  
 Abbott, J. B., 29.  
 Abbott, W. L., 25.  
 Abrams, M. L., 80.  
 Accola, J., 95, 96.  
 Ackerman, J. H., 72.  
 Adams, A. A., 28.  
 Adams, C. A., 90.  
 Adams, C. F., 12, 13.  
 Adams, D., 53.  
 Adams, E. J., 50.  
 Adams, G. E., 77, 78.  
 Adams, J. Q., 84.  
 Adams, M., 57.  
 Adams, W. H., 80.  
 Addicks, J. E., 18.  
 Aery, W. A., 90.  
 Agee, A., 74, 76.  
 Agee, H. P., 38.  
 Ahearn, M. F., 33.  
 Ainslie, G. G., 79.  
 Akerman, A., 22.  
 Alderman, W. H., 62.  
 Aldrich, H., 11.  
 Aldrich, I. D., 80.  
 Aldrich, J. M., 24.  
 Alexander, A. S., 94, 95.  
 Alexander, C. T., 25.  
 Alexander, J. O., 67.  
 Alexander, W. H., 87.  
 Alford, F. C., 16.  
 Allen, B. F., 53.  
 Allen, C. S., 54.  
 Allen, E. A., 51.  
 Allen, E. W., 4.  
 Allen, R. M., 36.  
 Allen, R. W., 73.  
 Allen, W. M., 66.  
 Alley, J., 71.  
 Allis, L. M., 30.  
 Allison, H. O., 26, 27.  
 Allison, I., 16.  
 Allison, J. H., jr., 32.  
 Allison, T. F. P., 81.  
 Allyn, G. S., 29.  
 Alton, B. H., 81.  
 Alvord, C. H., 83.  
 Alway, F. J., 55, 56.  
 Ames, C. T., 50.  
 Ames, J. W., 70.  
 Anderson, A., 80.  
 Anderson, A. C., 45, 46.  
 Anderson, B. G., 88.  
 Anderson, C. B., 54.  
 Anderson, H. L., 81.  
 Anderson, J. A., 61.  
 Anderson, J. N., 20.  
 Anderson, J. S., 91.  
 Anderson, J. T., 8.  
 Anderson, L., 13, 14, 15.  
 Anderson, W., 40.  
 Anderson, W. B., 30.  
 Andrews, M. W., 87.  
 Andrews, S. E., 83.  
 Andrews, W. H., 33.  
 Angell, E. D., 73.  
 Ansel, M. F., 79.  
 Apperson, J. T., 72.  
 Applewhite, A. L., 73.  
 Aray, L. E., 50.  
 Archer, H. E., 9.  
 Archer, H. M., 9.  
 Armidis, M., 23.  
 Armistead, C. F., 12.  
 Armsby, H. P., 5, 74, 76.  
 Armstrong, F., 31.  
 Armstrong, F. L., 39.  
 Armstrong, R. A., 92.  
 Armstrong, R. E., 57.  
 Arnett, C. N., 28.  
 Arnold, C. L., 69.  
 Arnold, F. R., 85.  
 Arthur, J. C., 28, 29.  
 Arville, D. A., 31.  
 Arvold, A. G., 68.  
 Ash, S. B., 68.  
 Ashby, R. C., 55.  
 Ashley, E., 43.  
 Ashmore, O., 22.  
 Atherton, H. H., 75.  
 Atkeson, T. C., 92.  
 Atkinson, A., 54.  
 Atkinson, T. W., 37.  
 Attaway, D. E., 21.  
 Atwood, H., 93.  
 Aubert, A. B., 40.  
 Aumer, J. P., 27.  
 Austin, G. C., 10.  
 Averell, A. W., 40.  
 Averitt, S. D., 36.  
 Avery, S., 55.  
 Axtell, H. L., 25.  
 Ayer, L. F., 90.  
 Aylesworth, B. O., 15, 16.  
 Ayres, B., 5, 81, 82.  
 Ayres, H. L., 64.  
 Babb, C. M., 92.  
 Babb, J. G., 51, 52.  
 Babb, M., 67.  
 Babcock, E. B., 14.  
 Babcock, K. C., 11.  
 Babcock, S. M., 94, 95.  
 Babcock, W., 45.  
 Babson, H., 23.  
 Bachelder, N. J., 57.  
 Bacheler, B., 90.  
 Backus, L. S., 51, 52.  
 Bagley, J. B., 83.  
 Bailey, E. M., 17.  
 Bailey, L. H., 6, 63, 64.  
 Bailey, T. J., 50.  
 Bain, S. McC., 82.  
 Bainer, H. M., 16, 17.  
 Baird, R. O., 71.  
 Baisden, J. C., 20, 21.  
 Baker, E. L., 62.  
 Baker, H. P., 74, 76.  
 Baker, J. F., 45.  
 Baker, J. H., 53.  
 Baker, L. W., 19.  
 Baker, S. L., 90.  
 Baker, W. C., 63.  
 Balcomb, E. E., 71.  
 Baldwin, C. W., 42.  
 Baldwin, H. P., 24.  
 Baldwin, L. B., 73.  
 Ball, E. D., 6, 85, 86.  
 Ball, L. H., 18.  
 Ball, O. M., 83, 84.  
 Ballard, W. R., 42.  
 Ballenger, T. T., 65.  
 Ballinger, F., 54.  
 Ballou, F. H., 70.  
 Balz, S., 81.  
 Banks, E. M., 20.  
 Banks, N. A., 84.  
 Barbour, E. H., 55, 56.  
 Barbour, E. L., 59.  
 Barbour, E. T., 71.  
 Barbour, M. E., 33.  
 Bard, T. R., 13.  
 Bardenwerper, K., 56.  
 Bark, D. H., 5.  
 Barker, H. S., 35.  
 Barker, J. F., 31.  
 Barker, P. B., 55, 56.  
 Barlow, J., 77.  
 Barlow, T. W., 74.  
 Barnard, F. J., 91.  
 Barnes, C. L., 16.  
 Barnes, G., 33.  
 Barnes, R. B., 7.  
 Barnes, S. E., 82.  
 Barnett, E., 79.  
 Barnett, R. J., 33.  
 Barnhart, J. M., 27.  
 Barr, J. H., 62.  
 Barre, H. W., 79.  
 Barrell, E. P., 39.  
 Barrell, Mrs. E. P., 39.  
 Barrett, R. C., 30.  
 Barringer, P. B., 88, 89.  
 Barrow, D. C., 21, 22.  
 Barrow, D. N., 78.  
 Barrows, W. B., 44.  
 Barrows, W. M., 58.  
 Barrus, M. F., 64.  
 Barry, C. A., 91.  
 Bartholomew, C. E., 31.  
 Bartlett, J. M., 40.  
 Barto, D. O., 26.  
 Bass, R. M., 10.  
 Bassett, L. B., 48.  
 Batchelor, L. D., 63.  
 Bateman, Mrs. M. C., 12.  
 Bates, E. S., 11.  
 Bates, M. C., 80.  
 Bauknight, P. M., 45.  
 Baumgartner, W. H., 92.  
 Baus, R., 38.  
 Baxter, O. G., 5.  
 Baxter, O. M., 90.  
 Bayard, E. S., 74.  
 Bayless, C. H., 11.  
 Baysinger, S. L., 51.  
 Beach, C. L., 18.  
 Beach, S. A., 30, 32.  
 Beach, W. G., 91.  
 Beal, F. W., 75.  
 Beal, W. H., 4.  
 Beal, W. J., 44.  
 Beall, L. H., 34.  
 Bear, F. E., 70.  
 Beard, H., 73.  
 Bearss, J. T., 15.  
 Beattie, R. K., 91, 92.  
 Beatty, C., 71.  
 Beaty, E. B., 73.  
 Beaumont, A. B., 36.  
 Beaver, J. A., 74.  
 Becker, A., 33.  
 Becker, E., 71.

- Beckwith, T. D., 67, 68. Blake, J. C., 83. Brainerd, W. K., 88. Brown, P. E., 60.  
 Bedford, R. C., 9. Blake, M. A., 60. Braman, W. W., 76. Brown, R. H., 33.  
 Beebe, W. L., 47. Blakeslee, A. F., 18. Brambilla, R. M., 56. Brown, R. L., 7.  
 Beem, D. E., 28. Bledsoe, P., 84. Brandlett, A., 79. Brown, S. B., 92.  
 Belden, H. M., 51. Bleile, A. M., 69. Brand, R. E., 27. Brown, S. H., 42.  
 Bell, A. W., 7. Blinn, P. K., 17. Brandt, M. S., 33. Brown, W., 57.  
 Bell, H., 60. Bliss, A. P., 44. Brannon, W. A., 96. Brown, W. A., 40.  
 Bell, H. G., 31. Bliss, G. R., 32. Brautlecht, C. A., 17. Brown, W. G., 51.  
 Bell, M. W., 67. Bliss, R. K., 32. Bray, C. I., 49. Brown, W. S. (Me.), 40.  
 Bell, N. E., 8. Blood, C. H., 62. Breazeale, W. E., 59. Brown, W. S. (W.  
 Bell, W. B., 67, 68. Blount, G. W., 90. Breckenridge, G. T., 12. Va.), 93.  
 Belling, J., 20. Blount, T. W., 65. Brenton, C. R., 29. Browne, J. J., 91.  
 Bellis, A. E., 96. Bluford, J. H., 67. Brett, L., 5. Brownell, C. B., 87.  
 Bemis, E., 75. Bogard, F., 78. Brett, P. M., 58. Brownfield, M., 12.  
 Bemis, H. E., 30. Boice, C. H., 33. Brewer, C. L., 45. Bruce, C. A., 69.  
 Benbrook, W. F., 50. Boldt, G. C., 62. Brewer, H. R., 54. Bruce, J. D., 82.  
 Benkendorf, G. H., 95. Bolley, H. L., 67, 68. Brewer, L., 54. Bruce, W. M., 12, 13.  
 Benner, R. C., 11. Bolton, F. C., 49. Brewer, W. F., 54. Bruegger, J., 67.  
 Bennett, A. A., 30. Bomberger, F. B., 41. Brewer, W. H., 17. Brumley, O. V., 69.  
 Bennett, B. F., 42. Bonebright, H. B., 16. Bridgeforth, G. R., 10. Bruner, L., 55, 56.  
 Bennett, E. R., 16, 17. Bonfoey, B. H., 51. Bridwell, J. C., 73. Brush, J. L., 15.  
 Bennett, J. W., 21. Bonn, C. P., 65. Briggs, M. B., 90. Brush, M. J., 16.  
 Benson, F. W., 72. Bopp, J. V., 81. Briggs, V., 9. Bryan, A. B., 79.  
 Bentley, G. M., 82. Borders, I. D., 50. Brigham, A. A., 80. Bryan, E. A., 91.  
 Benton, R., 14. Boss, A., 47, 48. Brimley, H. H., 66. Bryan, G. T., 70.  
 Berchtold, F., 72. Boss, W., 47. Brindley, J. E., 31. Bryan, N. P., 20, 21.  
 Bergen, T. G., 58. Bostwick, C. D., 62. Brink, C. M., 33. Bryant, O. W., 5.  
 Berger, E. W., 20. Bostwick, J. O., 77. Brinkley, E. H., 42. Bryant, T. R., 36.  
 Berger, Mrs. E. W., 20. Boswell, R. R., 16. Brinkley, L. L., 66. Buchanan, R. E., 30.  
 Bergman, H. F., 67, 68. Bosworth, A. W., 62. Brintnall, E., 34. Buchtel, H. A., 15.  
 Bergner, C. H., 74. Bouquet, A. G. B., 73. Briscoe, C. F., 26, 27. Buck, A. F., 87.  
 Bernheim, M., 38. Boutelle, F. C., 47. Brislan, J. J., 36. Buckham, M. H., 5, 86.  
 Berry, H. B., 91. Bouton, R., 55. Britton, J. A., 13. Buckhout, W. A., 74,  
 Berry, S. A., 90. Bowie, W. T., 52. Britton, W. E., 6, 17. 76.  
 Besley, F. W., 41. Bowditch, N. I., 43. Brodie, J. P., 67. Buckley, S. S., 41, 42.  
 Bessey, C. E., 55. Bowen, A. F., 65, 66. Brodie, R. K., 73. Buckman, H. O., 54.  
 Bessey, E. A., 37. Bowen, B. L., 69. Brooks, B. M., 35. Buckstaff, F. G., 94.  
 Betts, T., 7. Bowen, J. V., 49. Brooks, C., 58. Budd, J. E., 13.  
 Bevier, I., 26. Bowen, M. S., 51. Brooks, F. E. (Colo.), 15. Bugby, M. O., 70.  
 Bevier, L., jr., 59. Bowen, R. E., 78. Brooks, F. E. (W. Va.), 15. Bull, A. M., 47.  
 Bexell, J. A., 72. Bower, J., 30, 32. Brooks, I. S., 27. Bull, C. P., 47, 48.  
 Biddle, G., 18. Bowker, W. H., 43. Brooks, J. F., 22. Bull, F., 54.  
 Bigelow, A. P., 87. Bowles, P. S., 50. Brooks, N. C., 26. Bull, M. L., 48.  
 Bigelow, C. E., 89. Bowman, M. L., 30, 32. Brooks, R. P., 22. Bullard, J. E., 38.  
 Bigelow, W. D., 6. Bownocker, J. A., 69. Brooks, W. P., 43, 44. Bullen, J. C., 50.  
 Biggs, J., 18. Bowser, E. A., 59. Broome, F. H., 82. Burch, N. C., 53.  
 Billetdoux, E. W., 59. Boyd, G. R., 5. Brough, C. H., 12. Burd, J. S., 14.  
 Bingham, D., 58. Boyd, J. M., 81. Broughton, L. B., 42. Burdick, H., 77.  
 Birdsong, M. S., 66. Boyle, J. G., 28. Broughton, N. B., 65. Burgess, A. F., 6.  
 Bisby, B., 34. Brackett, G. B., 6. Broussard, J. F., 38. Burgess, J. M., 79.  
 Bishop, E. F., 24. Brackett, R. N., 79. Broward, N. B., 20. Burke, E., 54.  
 Bishop, M. W., 90. Bradford, J. C., 48. Brown, A. G., 93. Burke, T. F., 96.  
 Bixby, F. L., 5. Bradford, J. N., 69. Brown, A. M., 44, 46. Burkey, J. R., 61.  
 Bizzell, J. A., 63, 64. Bradford, Q. Q., 4, 23. Brown, B. E., 75, 76. Burks, C. B., 72.  
 Bjerregaard, A. P., 61. Bradfute, O. E., 68. Brown, C., 81. Burlingame, R. S., 77.  
 Black, E. G., 13. Bradham, D. J., 79. Brown, C. F., 5. Burlison, W. L., 71.  
 Black, H. V., 21. Bradley, C. E., 73. Brown, C. W., 45, 46. Burnap, G. E., 64.  
 Blackburn, W. E., 32. Bradley, J. C., 64. Brown, E. L., 19. Burnett, E. A., 55, 56.  
 Blackshear, E. L., 84. Bradley, M. A., 90. Brown, F. R., 58. Burnett, J. H., 22.  
 Blain, H. M., 38. Bradley, M. E., 79. Brown, H., 81. Burnett, L. C., 31, 32.  
 Blair, A. W., 20. Bradley, W. W., 78. Brown, J. L., 21. Burnette, F. H., 37, 38.  
 Blair, F. G., 25. Bragg, L. C., 17. Brown, J. T., jr., 82. Burns, J. C., 83, 84.  
 Blair, J. C., 26, 27. Bragg, T., 8. Brown, J. W., 42. Burr, W. W., 56.  
 Blair, M., 47. Bragg, V. W., 49. Brown, L. A., 68. Burrage, F. S., 96.  
 Blaisdell, D. L., 26. Brain, L. L., 24. Bruneau, W. P., 89.  
 Blaisdell, T. C., 45. Bruneau, W. P., 89. Burrill, T. J., 26, 27.

- Burrows, G. H., 87.  
 Burrows, T. K., 4.  
 Burruss, T. R., jr., 79.  
 Burton, P. E., 51.  
 Burton, R. W., 7.  
 Burt, A. W., 80.  
 Busey, M. E., 25.  
 Bush, E. E., 47.  
 Bush, L. P., 18.  
 Bushnell, L. D., 35.  
 Butcher, B. L., 93.  
 Butler, H. P., 80.  
 Butler, P., 46.  
 Butterfield, K. L., 5, 43.  
 Buxton, A. T., 72.  
 Caceres, S. N., 73.  
 Cady, Le R., 47, 48.  
 Caine, J. T., 85, 86.  
 Caine, J. T., jr., 84, 85.  
 Caldwell, A. B., 80.  
 Caldwell, J. W., 81.  
 Calhoun, F. H. H., 78.  
 Call, L. E., 34.  
 Callahan, I. B., 72.  
 Calvert, S., 51.  
 Calvin, H. W., 28.  
 Calvin, J. W., 76.  
 Calvin, M. V., 22.  
 Cameron, E. D., 71.  
 Campbell, C. B., 83.  
 Campbell, J. P., 21.  
 Campbell, M. (Hawaii), 23.  
 Campbell, M. (Iowa), 31.  
 Campbell, P. A., 40.  
 Campbell, T. M., 10.  
 Campbell, T. P., 88.  
 Campbell, W. A., 82.  
 Campbell, W. W., 9.  
 Cance, A. E., 43.  
 Cannon, A., 66.  
 Cannon, H. P., 19.  
 Cantwell, M. A., 54.  
 Canty, J. M., 93.  
 Capen, C. A., 17.  
 Carberry, V. J., 60.  
 Cardoza, K. L., 80.  
 Cardozo, F. H., 21.  
 Carlyle, E. C., 84.  
 Carman, A. P., 26.  
 Carmichael, B. E., 70.  
 Carnegie, A., 62, 74.  
 Carney, C. M., 53.  
 Carney, W. B., 89.  
 Carother, N., 12.  
 Carpenter, L. G., 16.  
 Carpenter, T., 35.  
 Carr, J. W., 40.  
 Carr, R. E., 31.  
 Carrell, R., 45.  
 Carrere, E. A., 39.  
 Carrier, L. E., 88.  
 Carrington, J. C., 87, 89.  
 Carroll, C. G., 12.  
 Carroll, D. H., 42.  
 Carroll, N. M., 42.  
 Carscadden, E., 16.  
 Carson, J. M., jr., 83.  
 Carson, J. W., 84.  
 Carter, J. C., 89.  
 Carver, G. W., 10.  
 Cary, C. A., 7, 8.  
 Cary, C. P., 94.  
 Cary, W. L., 41.  
 Case, L. E., 8.  
 Cassidy, M. A., 36.  
 Case, C. C., 73.  
 Cathcart, C. S., 60.  
 Catlin, A., 90.  
 Catlin, C. A., 86.  
 Caulfield, M. C., 39.  
 Cauthen, E. F., 8.  
 Cavanaugh, G. W., 63, 64.  
 Cave, N., 34.  
 Center, O. D., 26, 27.  
 Certain, C. C., 8.  
 Cessna, E., 31.  
 Cessna, O. H., 30.  
 Chaffee, G. T., 86.  
 Chamberlain, G. E., 72.  
 Chamberlain, W. I. (N. J.), 59.  
 Chamberlain, W. I. (Ohio), 70.  
 Chambers, J. W., 50.  
 Chambers, S. D., 68.  
 Chandlee, G. C., 75.  
 Chandler, H. A. E., 11.  
 Chandler, W. H., 51, 52.  
 Chapman, C. W., 45.  
 Chapman, G. H., 44.  
 Charlton, E. G., 32.  
 Chase, L. W., 55.  
 Chastain, O. F., 83.  
 Chatburn, G. R., 56.  
 Chatfield, J. L., 15.  
 Chedsey, W. R., 25.  
 Chenet, H. S., 37.  
 Chesnutt, M. N., 84.  
 Cheyney, E. G., 47, 48.  
 Chilton, H. S., 49.  
 Chipman, M. E., 23.  
 Chisholm, H., 68.  
 Chisholm, J., 70.  
 Chittenden, F. H., 89.  
 Christensen, F. W., 76.  
 Christie, G. I., 28, 29.  
 Chrysler, M. A., 40.  
 Church, J. E., 57.  
 Churchill, F. G., 31.  
 Churchill, G. W., 62.  
 Churchill, J. B., 75.  
 Churchill, O. O., 68.  
 Churchill, V. L., 17.  
 Churchman, J. W., 87, 89.  
 Clair, M. W., 42.  
 Clapp, S. C., 66.  
 Clark, A. J., 45.  
 Clark, A. W., 62.  
 Clark, C. C., 73.  
 Clark, C. F., 64.  
 Clark, G., 96.  
 Clark, J. E., 60.  
 Clark, J. W., 75, 76.  
 Clark, O. L., 65.  
 Clark, R. W., 54.  
 Clark, S. E., 85.  
 Clark, T. A., 26.  
 Clark, T. W., 57.  
 Clark, V. E., 30.  
 Clark, W. B., 37.  
 Clarke, E. E., 87.  
 Clarke, E. G., 24.  
 Clarke, R. A., 10.  
 Clarke, W. H., 37.  
 Clarke, W. T., 14.  
 Clay, C. M., 35.  
 Clay, H. B., 81.  
 Clay, W. T., 65.  
 Clayton, R. E., 40.  
 Clearwater, A. T., 58.  
 Clements, S. A., 90.  
 Clemons, L. E., 33, 35.  
 Cleveland, H. C., 86.  
 Cline, D. D., 38.  
 Cline, P. J., 22.  
 Clinton, G. H., 37.  
 Clinton, G. P., 17.  
 Clinton, L. A., 18.  
 Close, C. P., 6, 41, 42.  
 Clothier, G. L., 49, 50.  
 Clothier, R. W., 11.  
 Coad, K. M., 45.  
 Coale, G. G., 26.  
 Coates, C. E., 37.  
 Cobb, A. C., 70.  
 Cobleigh, W. M., 54.  
 Coburn, H. D., 96.  
 Coburn, J. L., 84, 85.  
 Cochel, W. A., 29.  
 Cochran, D. C., 76.  
 Cockefair, E. A., 51.  
 Cockerell, T. D. A., 11.  
 Coe, E. B., 58.  
 Coen, B. F., 16.  
 Coen, J. M., 48.  
 Coffeen, H. A., 96.  
 Coffey, A. B., 38.  
 Coffey, W. C., 26, 27.  
 Coffin, M. L., 48.  
 Cogbill, J. R., 19.  
 Coggeshall, C. H., 77.  
 Coit, J. E., 11.  
 Colby, G. E., 14.  
 Colclough, A. G., 20.  
 Colcord, J. C., 40.  
 Coldery, G. T., 42.  
 Cole, A. D., 69.  
 Cole, C. A. (Fla.), 21.  
 Cole, C. A. (Oreg.), 73.  
 Cole, F., 41.  
 Cole, J. T., 38.  
 Cole, V. E., 17.  
 Coleman, C. B., 27.  
 Coleman, L. L., 37.  
 Coles, M. J., 80.  
 Collett, R. W., 66.  
 Collett, S. W., 91.  
 Collier, F. J., 58.  
 Collingwood, C. B., 46.  
 Collins, B. W., 17.  
 Collins, G. V., 47.  
 Collins, P., 41.  
 Collins, V. S., 42.  
 Collison, R. C., 70.  
 Colliver, A. D., 35.  
 Colpitts, J., 30.  
 Colvin, C., 40.  
 Comer, B. B., 7, 8.  
 Comstock, A. B., 64.  
 Comstock, J. H., 63, 64.  
 Conard, M. E., 74.  
 Condon, A. S., 84.  
 Condra, G. E., 55.  
 Cone, V. M., 5.  
 Conklin, C., 55.  
 Conley, E. T., 41.  
 Conn, H. J., 64.  
 Conn, H. W., 17.  
 Conaway, J. W., 51, 52.  
 Connell, J. H., 71.  
 Conner, J. J., 21.  
 Conner, S. D., 28, 29.  
 Conners, J. P., 70.  
 Connovor, R., 10.  
 Conrad, H. C., 19.  
 Conrad, L. E., 33.  
 Conradi, A. F., 79.  
 Conser, H. N., 40.  
 Converse, G. L., 70.  
 Converse, J. E., 82.  
 Converse, J. H., 86.  
 Conwell, C. S., 18.  
 Cook, C. H., 60.  
 Cook, G. B., 11.  
 Cook, M. E., 48.  
 Cook, M. T., 19.  
 Cook, P., 58.  
 Cook, R. B., 85.  
 Cook, S. B., 53.  
 Cooke, A. D., 96.  
 Cooke, J. P., 24.  
 Cooke, J. W., 39.  
 Cooledge, E. V., 90.  
 Cooley, F. S., 54.  
 Cooley, R. A., 54.  
 Coon, J. A., 40.  
 Coope, J., 90.  
 Cooper, A. J., 53.  
 Cooper, B., 85.  
 Cooper, B. H., 90.  
 Cooper, H. E., 23.  
 Cooper, J. W., 89.  
 Cooper, L. L., 38.  
 Cooper, R. M., 23.  
 Cooper, T. P., 47, 48.  
 Cooper, W. B., 65.



- Cooper, W. H., 95.  
 Coover, W. F., 30.  
 Corbett, L. C., 6, 89.  
 Corbett, V. H., 16.  
 Corbit, D. W., 18.  
 Corbusier, P. W., 35.  
 Cordley, A. B., 72, 73.  
 Corley, J. W., 70.  
 Cornell, C. E., 62.  
 Cornwell, S. L., 19.  
 Corput, F., 22.  
 Corr, R., 14, 15.  
 Corson, O. T., 68.  
 Cortelyou, J. V., 33.  
 Corwin, R. W., 15.  
 Costenoble, H. L. V., 4, 23.  
 Cotton, E. C., 82.  
 Cotton, W. W., 72.  
 Cottrell, E. A., 75.  
 Cottrell, H. M., 16.  
 Cowan, T. N., 10.  
 Cowgill, Mrs. T. W., 57.  
 Cowles, I. F., 33.  
 Cowper, R. J., 96.  
 Coulter, R., jr., 74.  
 Coulter, S., 28.  
 Council, W. H., 9.  
 Councilman, C. A., 41.  
 Coupland, G., 54.  
 Courtright, J., 70.  
 Cousins-Dorsey, E., 93.  
 Cox, C. N., 16.  
 Cox, G., 53.  
 Cox, N. H., 20.  
 Crabb, G. A., 63, 64.  
 Crabbe, J. G., 35, 36.  
 Craig, A. G., 91, 92.  
 Craig, J., 6, 63, 64.  
 Craig, L., 65.  
 Craig, R. A., 28, 29.  
 Craigh, W., 40.  
 Crain, R., 41.  
 Crandall, C. S., 26, 27.  
 Crane, C. B., 60.  
 Crane, O., 28.  
 Cranford, C. C., 67.  
 Crawford, H. C., 20.  
 Crawford, J. F., 96.  
 Crawford, J. H., 84.  
 Crawford, L. A., 96.  
 Crawford, T. H., 72.  
 Crenshaw, B. H., 7.  
 Crews, M., 20.  
 Criswell, J. H., 31, 32.  
 Critchfield, N. B., 74.  
 Crittenden, R. F., 22.  
 Critz, H., 49.  
 Crocker, W. H., 13.  
 Crockett, H. W., 86.  
 Crockett, W. D., 75.  
 Crockett, Mrs. W. V., 12.  
 Cromer, C. O., 29.  
 Cromwell, A. M., 10.  
 Crookston, J., 85.  
 Crosby, C. R., 64.  
 Crosby, D. J., 4.  
 Cross, L. J., 64.  
 Crossley, B. W., 31.  
 Crothers, A. L., 41.  
 Crow, C. L., 20.  
 Crowe, C. P., 70.  
 Crowley, E. C., 34.  
 Crumb, A. E., 45.  
 Crutcher, W. H., 21.  
 Cullom, L. N., 45.  
 Culp, T. E., 31.  
 Cummings, M. B., 64.  
 Cummins, A. B., 29.  
 Cunningham, J. C., 35.  
 Cunningham, H. E., 87.  
 Currier, A. H., 54.  
 Currier, G. W., 57.  
 Curry, B. E., 58.  
 Curry, G., 60.  
 Curtis, A. W., 93.  
 Curtis, F. W., 18.  
 Curtis, H. E., 36.  
 Curtis, M. R., 40.  
 Curtis, R. S., 66.  
 Curtis, W. C., 51.  
 Curtiss, C. F., 5, 30, 32.  
 Cusick, J. T., 62.  
 Cutler, C., 29.  
 Dachnowski, A. P., 69.  
 Dacy, A. L., 93.  
 Daggett, W. P., 40.  
 Dales, J. S., 54, 56.  
 Dalrymple, W. H., 37, 38.  
 Damel, J. W., 53.  
 Damon, S. C. (Mass.), 43.  
 Damon, S. C. (R. I.), 78.  
 Pamon, S. M., 24.  
 Dandeno, J. B., 45.  
 Daniel, D. W., 78.  
 Daniel, W. E., 65.  
 Daniels, A. L., 86.  
 Daniels, C. W., 61.  
 Daniels, J. F., 16.  
 Daniels, L. C., 36.  
 Darden, W. A., 67.  
 Darling, J. F., 45.  
 Darnall, F. M., 49.  
 Darnall, H. J., 82.  
 Darnell, J. E., 60.  
 Dart, A. C., 96.  
 Daspit, J. C., 37.  
 Davenport, C. C., 37.  
 Davenport, E., 5, 26, 27.  
 Davidson, A. P., 42.  
 Davidson, J. B., 30, 32.  
 Davidson, R. J., 88.  
 Davies, G. F., 24.  
 Davies, H., 35.  
 Davies, P. M., 28.  
 Davis, A. M., 85.  
 Davis, B. F., 44.  
 Davis, C. C., 80.  
 Davis, E. A., 21.  
 Davis, E. B., 59.  
 Davis, E. H., 28.  
 Davis, E. W., 55.  
 Davis, G. J., 90.  
 Davis, H., 29.  
 Davis, H. S., 20.  
 Davis, J. E., 90.  
 Davis, J. M., 35.  
 Davis, K., 10.  
 Davis, K. C., 59.  
 Davis, M. A., 12.  
 Davis, M. E., 10.  
 Davis, M. L., 12.  
 Davis, T., 18.  
 Davis, T. W., 49.  
 Davis, V. H., 69.  
 Davis, W. C., 7.  
 Davis, Z. D., 48.  
 Davison, C., 25.  
 Davission, A. E., 55.  
 Dawley, F. E., 62.  
 Dawson, C. F., 19.  
 Day, E. D., 51.  
 Deaderick, C., 81.  
 Dean, G. A., 33, 34.  
 Dean, J. S., 83.  
 De Armond, R. W., 4, 10.  
 Debnam, W. F., 67.  
 De Camp, G. E., 60.  
 Decker, C. D., 47.  
 Deemer, R. B., 41.  
 Deerr, N., 24.  
 De Haven, G., 73.  
 Deiler, A. C., 84.  
 Dellinger, J. E., 67.  
 De Loach, R. J. H., 21.  
 Delwiche, E. J., 96.  
 Delwiche, O. J., 95, 96.  
 Demaree, F. H., 52.  
 Demarest, W. H. S., 58, 59, 60.  
 Demond, J. H., 43.  
 Deneen, C. S., 25.  
 De Nellotz, Mrs. S. C., 53.  
 Denney, J. V., 69.  
 Denise, D. D., 60.  
 Denniss, F. H., 82.  
 Denniston, R. H., 94.  
 Denny, G. G., 55.  
 Denson, N. D., 7.  
 Dent, A. T., 48.  
 Deputy, W., 19.  
 Derby, S. H., 18.  
 de Regt, A. D., 59.  
 Derthick, F. A., 68.  
 de Thestrup, H. V. F., 87.  
 Dickens, A., 33, 34.  
 Dickinson, A., 20.  
 Dickinson, M. F., 43.  
 Dickson, W. A., 48.  
 Didlake, M. L., 36.  
 Diehl, D., 70.  
 Dietrich, W., 26, 27.  
 Dillingham, F. T., 24.  
 Dillingham, W. P., 86.  
 Dingus, J. A., 90.  
 Dinsmore, S. C., 56, 57.  
 Dinsmore, W., 30.  
 Dinwiddie, R. R., 12, 13.  
 Dixon, V., 31.  
 Dixon, W. J., 29.  
 Dodge, D. K., 26.  
 Dodge, F. H., 59.  
 Dodson, W. R., 37, 38, 39.  
 Doggett, C. S., 79.  
 Doherty, A. J., 44.  
 Dohrmann, F. W., 13.  
 Dole, C. F., 9.  
 Dolve, R. M., 68.  
 Donaghho, J. S., 23.  
 Donahue, M. J., 8.  
 Donald, P., 58.  
 Donaldson, B., 34.  
 Donaldson, M. L., 78.  
 Donaldson, O., 10.  
 Doneghue, R. C., 67, 68.  
 Donovan, E., 18.  
 Donovan, H., 30.  
 Dorer, G., 60.  
 Dorman, J. E., 22.  
 Dorner, H. B., 26, 27.  
 Dorsey, E. C., 88.  
 Dorsey, G. B., 51.  
 Dorsey, M. J., 62.  
 Doten, S. B., 56, 57.  
 Doty, S. W., 75, 76.  
 Doughton, R. L., 66.  
 Douglass, A. E., 11.  
 Douglass, E., 16.  
 Dow, U. M., 33.  
 Downey, J. E., 96.  
 Downing, C., 28.  
 Downing, G. M., 74.  
 Dox, A. W., 18.  
 Drake, J. H., 7.  
 Drennan, R. E., 32.  
 Drew, B. L., 90.  
 Drew, G. A., 40.  
 Drew, J. M., 47.  
 Drew, W., 57.  
 Drewry, N. B., 22.  
 Drinkard, A. W., 88.  
 Drinkard, A. W., jr., 88.  
 Drisdale, B., 84.  
 Drury, J. B., 58.  
 Du Bose, M. D., 22.  
 Ducangé, E., 39.  
 Ducote, C. J., 37.  
 Dudley, J. B., 67.  
 Dudgeon, W. S., 31.  
 Duggar, B. M., 63, 64.  
 Duggar, J. F., 5, 7, 8, 9.  
 Dukes, A. L., 79.  
 Dulaney, H. S., 42.  
 Dulaney, J. J., 12.  
 Duncan, C. R., 43.  
 Duncan, L. N., 8.  
 Dunlap, G. W., 67.

- Dunn, B. J., 12.  
Dunn, W., 66.  
Duryee, J. R., 58.  
Dusenbury, E. G., 62.  
Dutcher, R. A., 81.  
Dutton, J. E., 18.  
Dutton, P. A., 19.  
Dryden, J., 73.  
Dwyre, C. G., jr., 16.  
Dye, B. U., 15.  
Dye, W. S., 75.  
Dykstra, R. R., 30.  
Dynes, O. W., 68.  
Dynes-Feuling, A., 30.
- Earhart, R. F., 69.  
Earl, G. C., 13.  
Earle, B., 84.  
East, E. M., 17.  
Eastman, J. F., 58.  
Eastman, R. E., 33, 34.  
Eastman, W. R., 41.  
Eaton, H. A., 92.  
Eaton, J., 87.  
Eaton, M. L., 90.  
Eckart, C. F., 24.  
Eckhardt, W. G., 26, 27.  
Eckles, C. H., 51.  
Eckles, E. H., 52.  
Edgar, A., 34.  
Edgar, C. L., 58.  
Edgerton, C. W., 38.  
Edmiston, H. D., 75, 76.  
Edmond, H. D., 18.  
Edmonds, C. L., 48.  
Edson, H. A., 87.  
Edwards, A. A., 15.  
Edwards, B., 29.  
Edwards, E. R., 48.  
Edwards, G. R., 50.  
Edwards, H., 5, 77.  
Edwards, H. S., 39.  
Edwards, J. H., 62.  
Egge, A. E., 91.  
Eggleston, J. D., 87.  
Eiesland, J. A., 92.  
Eisenlohr, B. A., 70.  
Eldred, J. R., 77.  
Eldred, M. D., 77.  
Eldridge, J. G., 25.  
Ellett, W. B., 88.  
Elling, C. G., 34.  
Ellington, J. T., 65.  
Elliott, C. G., 5.  
Elliott, E. E., 24.  
Elliott, J. C., 70.  
Elliott, T. I., 42.  
Elliott, W. J., 54.  
Ellis, G. H., 43.  
Ellis, W. H., 20.  
Ellsworth, E. A., 28.  
Ellsworth, J. L., 6, 43.  
Emerson, R. A., 55, 56.  
Emerson, S. F., 86.  
Emery, E. S., 53.
- Emmett, A. D., 27.  
Ende, C. von, 25.  
Endler, A., 90.  
Enders, H. E., 28.  
England, J. E., 90.  
English, J. P., 53.  
Enloe, W. A., 67.  
Epps, A. A., 9.  
Erf, O., 69.  
Erickson, A., 47.  
Erickson, O., 91.  
Ericson, E. C., 80.  
Erwin, A. T., 30, 32.  
Espenshade, A. H., 75.  
Essary, S. H., 82.  
Essex, H., 36.  
Estabrooke, H. M., 40.  
Esten, W. M., 18.  
Etcheverry, B. A., 14.  
Etheridge, W. C., 66.  
Eubank, M., 93.  
Eustace, H. J., 45, 46.  
Evans, A. L. (Tex.), 84.  
Evans, A. L. (Va.), 90.  
Evans, C. B., 18.  
Evans, C. H., 42.  
Evans, E., 94.  
Evans, I. B., 85.  
Evans, L. B., 25.  
Evans, P., 52.  
Evans, P. N., 28.  
Evans, W. D., 78.  
Evans, W. H., 4.  
Evans, W. L., 70.  
Evans, W. W., 71.  
Evvard, J. M., 51, 52.  
Ewing, A. L., 47.  
Ewing, A. M., 73.  
Ewing, F. C., 73.  
Ewing, Z. W., 81.  
Eyer, B. F., 33.
- Fain, J. R., 21.  
Fairfield, M. P., 31.  
Fairley, O., 5.  
Faris, C. B., 51.  
Farley, A. J., 60.  
Farr, J. M., 20.  
Farrell, F. D., 86.  
Farrington, E. H., 94, 95.  
Faulkner, E. L., 10.  
Faulkner, J. P., 53.  
Faurot, F. W., 52.  
Faville, A. D., 96, 97.  
Favor, E. H., 85, 86.  
Fassett, G. S., 86.  
Fawcett, G. L., 4, 77.  
Fawcett, H. S., 20.  
Feagin, W. F., 7.  
Fechét, E. G., 26.  
Fehr, C. D., 74.  
Fellows, G. E., 40.  
Fellows, Miss G. E., 40.  
Fenhagen, C. D., 42.  
Ferguson, J. A., 75, 76.  
Ferguson, A., 64.
- Ferguson, J. T., 22.  
Ferguson, O. P., 10.  
Fermier, E. J., 83.  
Fernald, C. H., 43, 44.  
Fernald, H. T., 43, 44.  
Ferris, E. B., 50.  
Ferry, E. S., 28.  
Fetzer, L. W., 42.  
Feuling, A. D., 30.  
Fifield, B. F., 86.  
Finley, F. B., 92.  
Fippin, E. O., 63, 64.  
Fish, A. E., 45.  
Fishburn, H. P., 25.  
Fisher, M. L., 28, 29.  
Fisher, O. S., 27.  
Fisher, R. W., 54.  
Fisher, W. F., 29.  
Fisk, N. W., 86.  
Fitterer, J. C., 96, 97.  
Fitts, J. N., 18.  
Fitzgerald, A. D., 70.  
Fleming, A., 31.  
Fleming, A. M., 84.  
Fleming, B., 63.  
Fleming, B. P., 5, 61, 63.  
Fleming, W. L., 38.  
Fletcher, C., 85.  
Fletcher, M., 90.  
Fletcher, S. W., 88.  
Flint, A. K., 69.  
Flint, E. R., 20.  
Flint, P. N., 22.  
Florance, W. E., 58.  
Floyd, B. F., 20.  
Floyd, C. M., 57.  
Floyd, J. W., 79.  
Floyd, W. L., 20.  
Fluegel, E. J., 28.  
Flynn, M., 31.  
Fogel, E. D., 31.  
Fogg, M. M., 55.  
Folsom, J. W., 26.  
Foord, J. A., 43.  
Forbes, S. A., 26.  
Forbes, E. B., 70.  
Forbes, R. H., 11.  
Fordham, L. B., 80.  
Forgeus, M., 31.  
Forristall, E. H., 43.  
Forsee, R. B., 80.  
Fort, J. F., 58, 60.  
Fort, T., 22.  
Fortier, S., 5.  
Fossler, L., 55.  
Foster, A. W., 13.  
Foster, F. J., 61.  
Foster, I. L., 74.  
Foster, L., 61.  
Foster, W. D., 31.  
Fountain, C. P., 83.  
Foust, J. I., 66.  
Fowler, C., 90.  
Fowler, E. C., 43.  
Fowler, J. M., 28.  
Fox, J. W., 50.
- Fox, W. W., 50.  
Francis, C. K., 52.  
Francis, D. R., 51.  
Francis, M., 83, 84.  
Frandsen, P., 56, 57.  
Frandsen, J. H., 25.  
Frank, J. L., 95.  
Franklin, H. J., 47, 48.  
Fraps, G. S., 83, 84.  
Fraser, W. J., 26, 27.  
Frazee, D. F., 35, 36.  
Frazer, J. T., 7.  
Frazier, J., 51.  
Frazier, J. B., 81.  
Frazier, W. H., 47, 48.  
Frazier, W. W., 89.  
Frear, W., 74, 76.  
Fred, E. B., 88.  
Frederick, H. J., 85, 86.  
Freedman, W. H., 86.  
Freeman, B., 79.  
Freeman, E. M., 47, 48.  
Freeman, G. F., 33, 34.  
Freeman, H. H., 39.  
Freeman, M. L., 49.  
Freeman, M. P., 11.  
Freelinghuysen, F., 58.  
French, G. T., 62.  
French, H. T., 5, 6, 24, 25.  
French, P., 25.  
French, T. E., 69.  
French, W. H. (Ill.), 62.  
French, W. H. (Mich.), 45.
- Freyhofer, L., 45.  
Fries, J. A., 76.  
Frink, M. R., 16.  
Frissell, H. B., 89.  
Frizzell, J. H., 75.  
Fromme, N. K., 81.  
Frye, P. H., 55.  
Fuchs, C., 15.  
Fuger, F. W., 45.  
Fullan, M. T., 7.  
Fullaway, D. T., 4, 23.  
Fuller, H. N., 58.  
Fuller, J. G., 94, 95.  
Fuller, P. E., 5.  
Fuller, R. G., 38.  
Fulmer, E., 91, 92.  
Fulton, E. S., 44.  
Fulton, H. R., 75, 76.  
Fulton, J., 72.  
Funk, E., 25.  
Fuqua, H. L., 37, 38.  
Furley, C., 34.  
Furman, C. M., 78.  
Fyffe, D. M., 70.
- Gaede, H. A., 60.  
Gage, E., 54.  
Gage, E. V., 75.  
Gager, C. S., 51, 52.  
Gahan, A. B., 42.  
Gain, J. H., 55, 56.  
Gainey, P. L., 65.

- Gaither, E. W., 70.  
 Gallher, D. C., 92.  
 Galloway, R., 12.  
 Galpin, M. T., 90.  
 Gantt, J. W., 78.  
 Garber, J. B., 9.  
 Garcia, F., 61.  
 Gardner, A. B., 79.  
 Gardner, F. D., 74, 76.  
 Gardner, O. M., 65.  
 Gardner, V. R., 40.  
 Garig, M., 38.  
 Garlid, G., 95.  
 Garlock, E. A., 40.  
 Garman, H., 36.  
 Garner, P. P., 49.  
 Garrett, F., 43.  
 Garrett, J. B., 39.  
 Garrigus, H. L., 18.  
 Garrison, W. D., 79.  
 Garrison, W. E., 61.  
 Garth, T. J., 37.  
 Gartley, A., 23.  
 Garver, M. M., 75.  
 Gary, W. E., 36.  
 Gaskell, E. F., 44.  
 Gaskill, R. F., 44.  
 Gass, H. A., 53.  
 Gasser, G. W., 4, 10.  
 Gatch, G., 73.  
 Gates, S. Y., 84.  
 Gaumnitz, A. J., 15.  
 Gaumnitz, D. A., 47, 48.  
 Gaw, E. E., 91.  
 Gay, C. W., 16.  
 Geismar, L. M., 46.  
 Gellerson, R. C., 40.  
 George, H. C., 70.  
 George, L. M., 77.  
 Georgeson, C. C., 4, 10.  
 Georgia, A. E., 64.  
 Gerac, H., 38.  
 Getchell, R. W., 31.  
 Getz, Mrs. A. T., 39.  
 Gibbs, C. M., 26.  
 Gibbs, W. D., 5, 57.  
 Gibson, F., 90.  
 Giddings, N. J., 87.  
 Giesecke, F. E., 83.  
 Giffard, W. M., 24.  
 Gilbert, A. H., 35.  
 Gilchrist, N. L., 45.  
 Gile, P. L., 4, 77.  
 Giles, E. W., 42.  
 Gilkey, H. M., 73.  
 Gill, B., 74.  
 Gill, E. T., 60.  
 Gill, F. W., 27.  
 Gillett, J. N., 13.  
 Gillette, C. P., 16.  
 Gillison, B., 79.  
 Gilmore, G., 22.  
 Gilmore, J. W., 23.  
 Gilreath, B., 9.  
 Giltner, W., 45, 46.  
 Given, G. C., 75, 76.  
 Glasson, E. J., 4.  
 Gleason, C. A., 43.  
 Glenn, M. A., 7.  
 Glover, G. H., 16.  
 Goddard, J. P., 85.  
 Goddard, L. H., 70.  
 Goddard, M., 81.  
 Goessmann, C. A., 44.  
 Goetz, C. H., 91.  
 Gold, C. W., 65.  
 Golden, E. F., 23.  
 Golding-Dwyre, C., jr., 16.  
 Goldsborough, F. C., 41.  
 Goldsmith, B. H., 75.  
 Goldsmith, P. V., 44.  
 Goldthwaite, N. E., 26.  
 Good, E. S., 36.  
 Goodale, G. S., 49.  
 Goodling, C. L., 75, 76.  
 Goodrich, A. M., 90.  
 Goodrich, N. L., 93.  
 Goodwin, S. H., 85, 86.  
 Goodwin, W. H., 70.  
 Goodwin, W. S., 12.  
 Gordon, A., 34.  
 Gordon, C. E., 43.  
 Gordon, C. H., 82.  
 Gordon, G. A., 9.  
 Gordon, J., 5.  
 Gordon, R. A., 50.  
 Gordy, T. W., 19.  
 Goss, A., 29.  
 Goss, L. W., 33.  
 Gossard, H. A., 70.  
 Goucher, J. F., 42.  
 Gough, C. A., 57.  
 Gould, S. W., 39.  
 Gourley, J. H., 70.  
 Gowans, E., 90.  
 Gracey, F. M., 43.  
 Graham, A. B., 70.  
 Graham, C. K., 89.  
 Graham, K. H., 20.  
 Graham, R. D., 44.  
 Graham, R. E., 38.  
 Graham, W. A., 66.  
 Grainger, W. E., 82.  
 Gramme, O., 96.  
 Grant, C., 18.  
 Grant, E. M., 92.  
 Grant, J. C., 9.  
 Grant, S. A., 22.  
 Grantham, A. E., 19.  
 Gravatt, T. E., 75.  
 Graves, H. L., 90.  
 Graves, L., 37.  
 Graves, W. L., 69.  
 Gray, D. T., 7, 8.  
 Gray, J., 93.  
 Gray, J. C., 76.  
 Grayson, D. A., 8.  
 Greaves, J. E., 85, 86.  
 Green, C. R., 43, 44.  
 Green, E., 73.  
 Green, H. L., 38.  
 Green, J. M., 83, 84.  
 Green, S. B., 47, 48.  
 Green, S. J., 39.  
 Green, W. J., 70.  
 Greene, C. W., 10.  
 Greene, E. B., 26.  
 Greene, E. P., 20.  
 Greene, L. R., 13.  
 Greer, D. H., 89.  
 Greer, J., 72.  
 Greer, J. M., 81.  
 Greever, G., 12.  
 Gregg, C. J., 80.  
 Gregg, O. I., 45.  
 Gregory, C. V., 31, 32.  
 Gregory, W. B., 5.  
 Grenfell, H. L., 16.  
 Gribben, R. L., 43.  
 Griffin, F. T., 73.  
 Griffin, J. L., 89.  
 Griffin, G. A., 4, 5.  
 Griffith, G. P., 32.  
 Griffith, W. E., 64.  
 Griggs, E. L., 21.  
 Griggs, R. F., 70.  
 Grimsby, C., 31.  
 Grimsshaw, M. E., 53.  
 Grindley, H. S., 26, 27.  
 Grossenbacher, J. G., 62.  
 Grossetta, A. V., 11.  
 Groat, G. P., 47.  
 Grover, A. L., 40.  
 Groves, E. R., 58.  
 Grubb, E. H., 15.  
 Grummann, P. H., 55.  
 Gullbeau, B. H., 37.  
 Guild, C., jr., 43.  
 Gulley, A. G., 18.  
 Gummere, W. S., 58.  
 Gunderson, C., 45.  
 Gunnels, H. C., 7, 8.  
 Gunness, C. L., 68.  
 Gunson, T., 45.  
 Gurney, L. E., 25.  
 Guss, S. H., 93.  
 Gustafson, A. F., 26, 27.  
 Guthrie, E. S., 63.  
 Guthrie, J. E., 30.  
 Guyer, G. D., 80.  
 Hadley, F. B., 91.  
 Hadley, H., 60.  
 Hadley, M. B., 20.  
 Hadley, P. B., 78.  
 Haecker, A. L., 55, 56.  
 Haecker, T. L., 47, 48.  
 Hagemann, E. H., 14, 15.  
 Hagerty, C. T., 61.  
 Hagerty, J. E., 69.  
 Haggart, M. H., 61.  
 Haidusek, A., 83, 84.  
 Haigh, L. D., 52.  
 Haines, T. H., 69.  
 Haines, W. T., 39.  
 Hall, F. H. (Ill.), 6.  
 Hall, F. H. (N. Y.), 62.  
 Hall, F. P., 12.  
 Hall, H. M., 14.  
 Hall, J. G., 66.  
 Hall, J. T., 50.  
 Hall, L. D., 26, 27.  
 Hall, M. K., 54.  
 Hall, R. A., 78.  
 Hall, W. W., 64.  
 Halland, J. G., 67.  
 Halligan, C. P., 45, 46.  
 Halligan, J. E., 38.  
 Halpin, J. G., 45.  
 Halsted, B. D., 59, 60.  
 Ham, F. W., 54.  
 Hamil, J. L., 74.  
 Hamilton, E. W., 31.  
 Hamilton, J., 4, 6, 74.  
 Hamilton, J. B., 82.  
 Hamilton, J. M., 54.  
 Hamilton, J. O., 33.  
 Hamilton, T., 20.  
 Hamilton, W. S., 35.  
 Hammer, B. W., 95, 96.  
 Hammond, R. L., 40.  
 Hammond, S. H., 62.  
 Hammond, W. F., 87.  
 Hammond, W. R., 22.  
 Hamner, N. C., 84.  
 Hampton, H. H., 82.  
 Hancock, M. W., 34.  
 Hand, J. L., 21.  
 Hand, W. F., 49.  
 Handschen, W. D., 48.  
 Haner, J. L. K., 25.  
 Hanks, L. R., 71.  
 Hanks, L. S., 94.  
 Hanna, H. H., 9, 89.  
 Hansen, N. E., 80, 81.  
 Hanson, H. H., 40.  
 Haralson, C., 48.  
 Hardie, R. A., 9.  
 Hardin, J. H., 78.  
 Hardin, M. B., 78.  
 Harding, A. M., 12.  
 Harding, A. S., 80.  
 Harding, H. A., 62.  
 Hardman, L. G., 21, 22.  
 Hardy, J. C., 48, 49.  
 Hare, A. J., 92.  
 Hare, C. Le R., 7, 8.  
 Hare, C. W., 9.  
 Hare, R. F., 61.  
 Hargis, M. B., 12.  
 Haring, C. M., 14.  
 Harkins, L. A., 54.  
 Harman, M. T., 73.  
 Harned, R. W., 49, 50.  
 Harper, H., 93.  
 Harper, J. N., 79.  
 Harper, M. W., 63, 64.  
 Harrington, H. H., 84.  
 Harrington, L. W., 45.  
 Harrington, W. W., 18.  
 Harris, A. C., 28.  
 Harris, C. D., 66.  
 Harris, F. S., 85.  
 Harris, G. D., 38.



- Harris, R. T., 96.  
 Harris, T. H., 37.  
 Harrison, H. T., 41.  
 Harrison, T. P., 65.  
 Harrison, W. H., 53.  
 Hart, C. E., 59.  
 Hart, E. B., 94, 95.  
 Hart, J. H., 90.  
 Hart, J. N., 40.  
 Hart, L. C., 22.  
 Hart, W. R., 43.  
 Harter, G. A., 18, 19.  
 Hartman, H. R., 67.  
 Hartman, W. J., 66.  
 Hartman, W. S., 53.  
 Hartshorn, L. M., 37.  
 Hartwell, B. L., 78.  
 Hartzell, S. A., 31, 32.  
 Harwood, T. E., 81.  
 Hasbrouck, P. B., 43.  
 Haseman, L., 64.  
 Haskell, E. J., 39.  
 Haskell, S. B., 43.  
 Haskins, H., 95.  
 Haskins, H. D., 44.  
 Hastings, E. G., 94, 95.  
 Hatch, F. L., 25.  
 Haugan, H. A., 25.  
 Haviland, L. P., 62.  
 Hawes, A., 72.  
 Hawes, A. F., 17, 18.  
 Hawk, P. B., 26, 27.  
 Hawkes, W. E., 45.  
 Hawley, A. M., 15, 16.  
 Haworth, C. E., 92.  
 Haworth, O. C., 29.  
 Hay, W. H., 74.  
 Hayden, A., 31.  
 Hayden, C. C., 26, 27.  
 Hayes, M., 18.  
 Hayes, W. O., 11.  
 Hayes, W. S., 80.  
 Hays, M. R., 55.  
 Hays, Mrs. S. H., 24.  
 Hays, W. M., 5.  
 Hayward, H., 19.  
 Hayward, W. G., 66.  
 Hazel, J. H., 23.  
 Hazelwood, J. M., 93.  
 Hazen, L. E., 35.  
 Hadden, W. P., 16.  
 Headlee, T. J., 33, 34.  
 Hean, C. S., 95, 96.  
 Hearst, P. A., 13.  
 Heater, C. W., 89.  
 Heater, R. E., 73.  
 Hebard, G. R., 96, 97.  
 Heck, R. C. H., 59.  
 Hedges, C. C., 63.  
 Hedrick, U. P., 61.  
 Hedrick, W. O., 45.  
 Hegnauer, L., 26, 27.  
 Heideman, C. W. H., 4, 10.  
 Hein, W. E., 55, 56.  
 Heinrich, G. A., 45.  
 Heiss, J., 28.  
 Helder, G. K., 35.  
 Heldring, J. J. L., 91.  
 Hellman, I. W., 13.  
 Helme, N., 77, 78.  
 Helsell, W. A., 29.  
 Hemingway, R. S., 75.  
 Hemphill, R. G., 5.  
 Henderson, C. B., 56.  
 Henderson, H., 13.  
 Henderson, J. J., 38.  
 Henderson, L. F., 25.  
 Henderson, W., 22.  
 Henderson, W. F., 88.  
 Hendren, L. L., 21.  
 Hendricks, M., 45.  
 Henley, W. W., 11.  
 Hennis, C. M., 68.  
 Henry, D. H., 79.  
 Henry, E. S., 17.  
 Henry, R. L., 37.  
 Henry, W., 4.  
 Henry, W. A., 94, 95.  
 Hensel, H., 45.  
 Hepburn, N. W., 26, 27.  
 Hepburn, W. K., 44.  
 Hepburn, W. M., 28.  
 Hepner, F. E., 97.  
 Herbert, J. C., 49.  
 Herbert, J. W., jr., 58.  
 Herbert, R. O., 12.  
 Herget, A. M., 37.  
 Hering, J. W., 41.  
 Herms, W. B., 14.  
 Herndon, D. T., 8.  
 Herrick, G. W., 83, 84.  
 Herrick, R. S., 16.  
 Herrick, S. M., 88.  
 Herrington, J. A., 83.  
 Herron, L. E., 90.  
 Hetzel, R. D., 73.  
 Hewitt, J. L., 12, 13.  
 Hey, G. W., 54.  
 Hibbard, B. H., 30.  
 Hibbard, P. L., 15.  
 Hibbard, R. P., 49, 50.  
 Hibberd, G. H., 41.  
 Hicks, A. M., 18.  
 Hidingler, L. L., 5.  
 Hiester, G., 74.  
 Higgins, J. C., 18.  
 Higgins, J. E., 4, 23.  
 Hilary, F. A., 75.  
 Hilgard, E. W., 13, 14.  
 Hill, A. R., 51, 53.  
 Hill, B. A., 71.  
 Hill, C. O., 82.  
 Hill, D. H., 65.  
 Hill, G., 37.  
 Hill, H., 65, 66.  
 Hill, H. A., 39.  
 Hill, H. H., 88.  
 Hill, H. W., 56.  
 Hill, J. A., 97.  
 Hill, L., 73.  
 Hill, R. S., 41.  
 Hill, W. F., 74.  
 Hills, J. L., 5, 86, 87.  
 Hilyer, J. V., 21.  
 Himes, R. L., 37.  
 Hinds, W. E., 7, 8.  
 Hine, G. S., 96.  
 Hine, J. S., 69.  
 Hinton, W. A., 72.  
 Hiscok, F. H., 62.  
 Hitch, H. J., 42.  
 Hite, B. H., 92, 93.  
 Hite, J. E., 82.  
 Hoagland, D. R., 14, 15.  
 Hoard, W. D., 94.  
 Hoblit, M. L., 61.  
 Hodges, J. T., 84.  
 Hodges, T. E., 92.  
 Hodgkiss, H. E., 62.  
 Hodnette, R. E., 8.  
 Hoefler, E. G., 96.  
 Hoff, E. J., 5.  
 Hoffman, A. H., 30.  
 Hoffman, J. W., 84.  
 Hoffmann, C., 95.  
 Hogenson, J. C., 85, 86.  
 Holcomb, G. N., 43.  
 Holcomb, J., 12.  
 Holdaway, C. W., 88.  
 Holden, C. C., 93.  
 Holden, P. G., 32.  
 Holden, R. J., 88.  
 Holder, C. E., 96.  
 Holdrum, A. C., 60.  
 Holland, E. B., 6, 44.  
 Hollister, G. H., 67.  
 Holloway, H. C., 80.  
 Holloway, W. M., 20.  
 Holm, H. C., 15.  
 Holmes, A. D. (Mass.), 43.  
 Holmes, A. D. (S. C.), 79.  
 Holmes, W., 70.  
 Holmgren, A., 85.  
 Holroyd, I. E., 33.  
 Holt, C. L., 45.  
 Holter, G. L., 71.  
 Hook, J. H., 79.  
 Hook, J. N., 79.  
 Hooker, W. A., 4.  
 Hooper, A., 42.  
 Hooper, J. J., 36.  
 Hooper, V. A., 12, 13.  
 Hooper, W. D., 21.  
 Hoover, J. M., 81.  
 Hoover, J. T., 31.  
 Hopkins, C. G., 26, 27.  
 Hopkins, F. A., 35.  
 Hopkins, H., 9.  
 Hopper, H. A., 14, 15.  
 Hopson, G. A., 17.  
 Horne, A., 66.  
 Horneman, H. C., 32.  
 Horner, D. W., 60.  
 Horner, J. B., 72.  
 Horsfall, F., 52.  
 Horton, J. R., 85, 86.  
 Hoskins, J. D., 82.  
 Hosmer, R. S., 23.  
 Hossinger, J. H., 18.  
 Hotchkiss, W. S., 84.  
 Hottes, C. F., 26.  
 Houghton, C. O., 19.  
 House, E. B., 16, 17.  
 House, W. L., 33.  
 Householder, F. C., 68.  
 Houser, T., 70.  
 Houseworth, E. E., 84.  
 Houston, E. W., 53.  
 Houston, H., 79.  
 Houston, M. E., 90.  
 Houston, S. T., 42.  
 Hoyland, H. B., 46.  
 Howard, F., 34.  
 Howard, K. E., 90.  
 Howard, O. T., 50.  
 Howard, R. C., 93.  
 Howard, R. F., 56.  
 Howard, S. F., 43.  
 Howard, W. L., 51, 52.  
 Howe, A., 89.  
 Howe, E. D., 43.  
 Howe, F. W., 45.  
 Howe, H. E., 52.  
 Howe, R. B., 27.  
 Howell, D. B., 47.  
 Howell, E. A., 50.  
 Hubbard, G. D., 70.  
 Hubert, J., 41.  
 Hudnall, R. H., 88.  
 Hudson, J., 60.  
 Hudson, R. S., 45.  
 Hudson, T. G., 21, 22.  
 Huff, G. A., 26.  
 Huff, L. B., 74.  
 Huggins, J., 9.  
 Hughes, C. E., 62.  
 Hughes, C. M., 66.  
 Hughes, D. M., 21.  
 Hughes, H. D., 51, 52.  
 Hull, A. L., 21.  
 Hull, D. C., 49.  
 Hull, E. L., 90.  
 Hulme, E. M., 25.  
 Humbert, E. P., 64.  
 Hume, A. N., 26, 27.  
 Hume, E. E., 36.  
 Hummel, J. A., 47, 48.  
 Hummel, W. G., 61.  
 Humphrey, G. C., 94, 95.  
 Humphrey, H. B., 91, 92.  
 Humphrey, H. D., 16.  
 Hungerford, J. B., 29.  
 Hunn, C. E., 64.  
 Hunn, C. J., 4, 23.  
 Hunt, A., 23.  
 Hunt, L. W., 91.  
 Hunt, T. F. (Cal.), 14, 15.  
 Hunt, T. F. (Pa.), 5, 76, 77.  
 Hunt, Mrs. T. M., 84.  
 Hunt, W. E., 57.  
 Hunter, J. E., 78.



- Hunter, J. S., 15.  
 Huntington, A. M., 89.  
 Huntley, V. G., 15.  
 Huntsman, S., 85.  
 Hunziker, O. F., 28, 29.  
 Hurd, W. D., 40.  
 Hurt, L. M., 44, 46.  
 Hutcheson, J. R., 88.  
 Hutcheson, T. B., 88.  
 Hutchinson, W. L., 49, 50.  
 Hutchison, C. B., 51, 52.  
 Hutchison, G. G., 74.  
 Hutt, W. N., 66.  
 Hyatt, E., 13.  
 Hyde, E., 89.  
 Hyslop, G. R., 73.  
 Hyslop, R. E., 24, 25.  
 Ickelheimer, H. R., 62.  
 Iddings, E. J., 16.  
 Ikard, F., 70.  
 Ince, J. W., 68.  
 Ingham, H. E., 58.  
 Ingham, N. D., 15.  
 Ingraham, E. S., 69.  
 Iorns, M. J., 4, 77.  
 Irish, J. S., 78.  
 Irvine, B. F., 72.  
 Irwin, W. G., 24.  
 Isaacs, R. L., 84.  
 Isham, C. S., 90.  
 Jackman, W. T., 87.  
 Jackson, C. F., 58.  
 Jackson, E. P., 73.  
 Jackson, H. S., 19.  
 Jackson, J. H., 36, 37.  
 Jackson, P., 50.  
 Jackson, T. F., 49.  
 Jackson, W. M., 37.  
 Jacob, J. E., 49.  
 Jacob, M., 82.  
 Jacobs, E. C., 87.  
 Jacobs, J., 95.  
 Jacobs, T. P., 92.  
 Jacobs, W. S., 12, 13.  
 Jaffa, M. E., 13, 14.  
 Jahns, L. M., 95, 96.  
 Jamerson, G. H., 88.  
 James, A. C., 89.  
 James, C., 58.  
 James, E. J., 26.  
 Jameson, K., 35.  
 Jameson, L. M. B., 90.  
 Jameson, M. B., 90.  
 Jamison, A. P., 28.  
 Jamison, G. A., 28.  
 Janeway, H. L., 58.  
 Jarnagin, M. P., 21.  
 Jarvis, C. D., 18.  
 Jarvis, C. M., 17.  
 Jarvis, J. D., 28.  
 Jason, W. C., 19.  
 Jayne, A., 90.  
 Jayne, S. O., 5.  
 Jeffery, J. A., 45, 46.  
 Jeffrey, J. S., 65, 66.  
 Jeffries, J. H., 66.  
 Jeffs, R., 31.  
 Jenkins, E. H., 5, 17.  
 Jenkins, M., 64.  
 Jenks, B. F., 43.  
 Jeness, J. R., 36.  
 Jennison, H. M., 43.  
 Jensen, W. A., 73.  
 Jensen, J. W., 85.  
 Jobbins, D. M., 60.  
 Joblivette, H. D. M., 95.  
 Jodidi, S. L., 46.  
 Johnson, A. G., 29.  
 Johnson, A. R., 59.  
 Johnson, C. L., 72.  
 Johnson, E. A., 21.  
 Johnson, F. A., 44.  
 Johnson, F. E., 15.  
 Johnson, F. S., 13.  
 Johnson, H. L., 77.  
 Johnson, J. A., 46.  
 Johnson, L. A., 91.  
 Johnson, L. E., 87.  
 Johnson, L. R., 10.  
 Johnson, S., 28.  
 Johnson, S. A., 16, 17.  
 Johnson, T. C., 89.  
 Johnston, B. M., 34.  
 Johnston, Mrs. C. E., 4.  
 Johnston, E., 90.  
 Johnston, W. W., 71.  
 Johnstone, A., 78.  
 Johnstone, B. H., 79.  
 Jones, A. C., 96.  
 Jones, A. E., 45.  
 Jones, C. E., 93.  
 Jones, C. H., 87.  
 Jones, C. L., 39.  
 Jones, E. B., 21.  
 Jones, E. L., 94.  
 Jones, E. M., 93.  
 Jones, E. R., 95.  
 Jones, G., 12.  
 Jones, J. H., 42.  
 Jones, J. McH., 93.  
 Jones, J. S. (Idaho), 24, 25.  
 Jones, J. S. (Iowa), 29.  
 Jones, L. R., 86, 87.  
 Jones, M., 89.  
 Jones, M. P., 63.  
 Jones, O. B., 70.  
 Jones, P. W. L., 37.  
 Jones, R., 15.  
 Jones, R. C., 76.  
 Jones, R. K., 40.  
 Jones, T. J., 90.  
 Jones, T. T., 35.  
 Jones, W. J., jr., 29.  
 Jones, W. M., 31.  
 Jordan, A. E., 24.  
 Jordan, E. L., 38.  
 Jordan, H. B., 90.  
 Jordan, S. M., 51.  
 Jordan, W. H., 5, 62.  
 Jordon, E. W., 12.  
 Judisch, G., 31.  
 Judson, L. B., 63, 64.  
 Jull, M. A., 93.  
 Junkin, T. P., 83.  
 Kammeyer, J. E., 33.  
 Kanaga, E. D., 25.  
 Karnes, J. V. C., 51.  
 Kaufman, F. J., 75.  
 Kaupp, B. F., 16.  
 Keady, W. P., 72.  
 Kean, J. C., 49.  
 Kedzie, F. S., 44.  
 Keene, J. R., 42.  
 Keffer, C. A., 82.  
 Keith, W. J., 75.  
 Keithley, J. R., 52.  
 Keitt, T. E., 79.  
 Keitt, T. W., 78.  
 Keller, G., 94.  
 Kelley, C. W., 67.  
 Kelley, W. P., 4, 23.  
 Kellogg, H., 31, 32.  
 Kellogg, L. L., 58.  
 Kellum, J. G., 20, 21.  
 Kelly, J. L., 37.  
 Kendall, J. C., 33, 34.  
 Kennedy, P. B., 56, 57.  
 Kennedy, W. J., 30, 32.  
 Kenney, F. C., 43, 44.  
 Kent, F. L., 72, 73.  
 Keppel, H. G., 20.  
 Kern, C. A., 87.  
 Kern, F. D., 29.  
 Kerr, A. P., 38.  
 Kerr, E. W., 37.  
 Kerr, G. G., 18.  
 Kerr, J. P., 49, 50.  
 Kerr, S. A., 66.  
 Kerr, W. C., 62.  
 Kerr, W. J., 5, 72.  
 Ketcham, S. B., 60.  
 Kettle, S. I., 16.  
 Keyser, A., 16.  
 Keyser, V., 55.  
 Kibbey, J. H., 11.  
 Kibler, A., 79.  
 Kidd, J. W., 83.  
 Kidder, A. F., 38.  
 Kidder, F. T., 86.  
 Kidder, I. A., 73.  
 Kiesewetter, L. F., 68.  
 Kilbourne, M. H., 31.  
 Kilgore, B. W., 66.  
 Killebrew, C. D., 8.  
 Kimball, C. D., 77.  
 Kimbrough, J. M., 22.  
 King, C. M., 31, 32.  
 King, E. M., 9.  
 King, E. S., 45.  
 King, H. E., 10.  
 King, H. H., 33.  
 King, M. L., 36.  
 King, M. L., 31, 32.  
 King, T. B., 20, 21.  
 King, W. E., 33, 34.  
 Kingsley, D. P., 86.  
 Kinley, D., 26.  
 Kinney, E. J., 36.  
 Kinzer, R. J., 33, 34.  
 Kipp, H. A., 5.  
 Kirk, W. H., 59.  
 Kirkaldy, G. W., 24.  
 Kirkpatrick, J. B., 58.  
 Kirkpatrick, W. F., 78.  
 Kizer, C. G., 87.  
 Kleeberger, F. L., 11.  
 Kleinheinz, F., 95.  
 Kline, H. J., 75.  
 Kline, L. D., 87.  
 Klugh, W. W., 79.  
 Kluttz, W. L., 67.  
 Knabe, W. A., 82.  
 Knapp, H., 29, 30.  
 Kneale, R. D., 54.  
 Knight, C. S., 34.  
 Knight, F. C., 34.  
 Knight, G. W., 69.  
 Knight, H. G., 96, 97.  
 Knight, H. L., 4.  
 Knoerie, J., 52.  
 Knoll, F. P., 75.  
 Knorr, F., 16, 17.  
 Knott, W. V., 20.  
 Knowles, N. S., 32.  
 Knudson, L., 63.  
 Koch, A. E., 81.  
 Koebele, A., 24.  
 Kohler, A. R., 47, 48.  
 Kollock, H. G. M., 18.  
 Kone, E. R., 83.  
 Koonce, E. M., 65.  
 Kortright, F. L., 93.  
 Krak, J. H. B., 93.  
 Krall, J., 5.  
 Kramer, W. H., 70.  
 Krauss, F. G., 4, 23.  
 Krum, W. G., 64.  
 Kunerth, W., 31.  
 Kunst, F. B., 93.  
 Kyle, C., 85.  
 Kyle, E. J., 83.  
 Kyle, H. G., 81.  
 Kyle, M. J., 26.  
 La Bach, J. O., 36.  
 Lacy, M. G., 88.  
 Ladd, E. F., 6, 67, 68.  
 Lafferty, W. T., 35.  
 Lain, G. E., 61.  
 Lake, E. R., 72, 73.  
 Lamb, C. G., 16.  
 Lamb, W. A., 34.  
 Lambert, D. J., 77.  
 Lamereaux, D. P., 94.  
 Lamme, E. B., 53.  
 Lamoureux, A. J., 64.  
 Lamson, G. H., jr., 18.  
 Landacre, F. L., 69.  
 Landes, S. W., 71.  
 Landon, L. E., 45.  
 Landon, Mrs. L. E., 46.  
 Lane, C. H., 82.

- Lane, W. C., 34.  
 Lane, W. P., 29.  
 Lang, M., 90.  
 Lange, H., 17.  
 Langton, W. S., 85.  
 Langworthy, C. F., 4, 5.  
 Lansing, R. C., 47.  
 Larkin, R. R., 60.  
 Larkins, L. S., 39.  
 Larsen, C., 81.  
 Larsen, C. M., 85.  
 Larsen, C. W., 75, 76.  
 Larsen, L. D., 24.  
 Larson, R. A., 81.  
 La Shell, L. L., 70.  
 Lassalle, L. J., 38.  
 Latimer, F. S., 34.  
 Laton, T. J., 58.  
 Latta, W. C., 5, 28.  
 Lauck, W. H., 5.  
 Laughinghouse, J. J., 66.  
 Lauman, G. N., 63.  
 Lawrason, S. McC., 37.  
 Lawrence, C. W., 92.  
 Lawrence, J. F., 71.  
 Lawrence, J. W., 16.  
 Lawrence, S. R., 12.  
 Lawrence, W. E., 45.  
 Lawrence, W. H., 92.  
 Laws, A. G., 50.  
 Laws, L. P., 19.  
 Laycock, W. E., 45.  
 Layman, J. D., 57.  
 Lazenby, W. R., 6, 69.  
 Lea, E. J., 14, 15.  
 Lea, P., 18.  
 Lear, J. E., 83.  
 Lee, C. E., 26, 27.  
 Lee, J. G., jr., 39.  
 Lee, R. E., 78.  
 Leenhoff, J. W. van, 4, 77.  
 Lefevre, G., 51.  
 Le Fevre, J., 58.  
 Leffler, S., 45.  
 Letgett, K. K., 83, 84.  
 Lehman, L. L., 25.  
 Leighton, V. L., 77.  
 Lemon, J. G., 22.  
 Lentner, S., 30.  
 Lenton, W., 12, 13.  
 Lentz, M., 12.  
 Leonard, A., 34.  
 Leonard, W. J., 92.  
 Le Rossignol, J. L., 55.  
 Lettis, H. M., 29.  
 Leupp, W. H., 58.  
 Lewers, C. R., 56.  
 Lewers, K., 57.  
 Lewers, R., 56.  
 Lewis, A. F., 39.  
 Lewis, A. G., 62.  
 Lewis, C. E., 40.  
 Lewis, C. I., 72, 73.  
 Lewis, H. B., 90.  
 Lewis, I. M., 58.  
 Lewis, J. P., 79.  
 Lewis, J. V., 59.  
 Lewis, L. L. (Okla.), 71.  
 Lewis, L. L. (Va.), 89.  
 Lewis, L. M., 61.  
 Lewis, M. E., 24.  
 Lewis, T. K., 69.  
 Lewis, Z. R., 79.  
 Lewton-Brain, L., 24.  
 Lichtenthaeler, R. A., 76.  
 Ligon, R. F., jr., 7.  
 Linckey, A. E., 34.  
 Lincoln, J. R., 30.  
 Lind, J., 46.  
 Lindblad, R. C., 44.  
 Lindsey, J. B., 44.  
 Lindsey, R. W., 70.  
 Linfield, F. B., 5, 54.  
 Linklater, W. A., 71.  
 Linnartz, L. E., 85.  
 Lippman, J. G., 59, 60.  
 Lipp, C. C., 47, 48.  
 Lippincott, W. A., 31.  
 Lister, L., 31.  
 Little, C. N., 25.  
 Little, E. E., 31, 32.  
 Little, E. M., 55, 56.  
 Liverance, W. B., 45.  
 Lloyd-Jones, E., 94.  
 Lloyd, E. R., 49.  
 Lloyd, F. E., 7, 8.  
 Lloyd, J. W., 26, 27.  
 Lockerman, J., 42.  
 Lockwood, W. P. B., 43.  
 Lodge, W. L., 45.  
 Logan, C. C., 27.  
 Logan, K. H., 34.  
 Logan, W., 9.  
 Logan, W. N., 49.  
 Logo, V. L., 75.  
 Lomax, J. A., 83.  
 Lommen, I., 31.  
 Long, R. L., 11.  
 Longyear, B. O., 16.  
 Lord, H. B., 62.  
 Lore, C. B., 18, 19.  
 Loudenback, H. H., 81.  
 Lougher, T., 24.  
 Loughridge, J. E., 55.  
 Loughridge, R. H., 13, 14.  
 Love, A. L., 49.  
 Love, H., 85.  
 Love, H. H., 64.  
 Lovejoy, S. C., 74.  
 Loveland, G. A., 55, 56.  
 Low, A. S., 90.  
 Low, F. F., 90.  
 Low, S., 9, 89.  
 Lowman, W. R., 79.  
 Lowry, M. M., 93.  
 Lowry, M. W., 74.  
 Lowry, W. H., 93.  
 Lucas, P., 72.  
 Luckie, C. W., 84.  
 Ludlow, H. W., 90.  
 Lueder, C. A., 92.  
 Lumbrick, A., 26, 27.  
 Lumsden, D., 58.  
 Lund, J., 33.  
 Lund, T. H., 81.  
 Lustrat, J., 22.  
 Luttrell, E. G., 11.  
 Luttrell, S. B., 81.  
 Lutz, W. J., 28.  
 Lyford, V. G., 54.  
 Lyman, L. C., 90.  
 Lyman, R. W., 43.  
 Lyman, W. T., 18.  
 Lynch, G. M., 20.  
 Lynde, H. M., 5.  
 Lyon, H. L., 24.  
 Lyon, T. L., 63, 64.  
 Lyons, S. M., 37.  
 McAduory, I. S., 8.  
 McAfee, C. B., 52.  
 McAlexander, U. G., 73.  
 McArdle, H. W., 67.  
 McBride, R. E., 60.  
 McBryde, J. B., 88.  
 McBryde, J. M., 88.  
 McCaffrey, M. E., 94.  
 McCall, A. G., 69.  
 McCallum, A. T., 66.  
 McCallum, W. B., 11.  
 McCampbell, E. F., 70.  
 McCann, S. D., 36.  
 McCarter, R. H., 58.  
 McCarty, M. M., 68.  
 McClain, J. C., 22.  
 McClelland, C. K., 35.  
 McClenahan, P. E., 61.  
 McClendon, S. E., 38.  
 McClintock, J. E., 40.  
 McCloskey, A. G., 64.  
 McClung, D. C., 53.  
 McClung, H. L., 81.  
 McClure, J., 50.  
 McClure, S. V., 11.  
 McCoard, G. W., 69.  
 McCollum, E. V., 94, 95.  
 McComb, C. J., 95.  
 McConnell, W. R., 75.  
 McCool, M. M., 64.  
 McCormick, E. B., 33.  
 McCrary, M. L., 72.  
 McCreary, O. M., 62.  
 McCreary, P. L., 15.  
 McCrory, S. H., 5.  
 McCue, C. A., 19.  
 McCullough, J. G., 86.  
 McCune, C. N., 67.  
 McCune, E. C., 84.  
 McCutcheon, O. E., 24.  
 McDermott, E. F., 91.  
 McDonald, P., 45.  
 McDonald, W. T., 91, 92.  
 McDonnell, H. B., 41.  
 McDowell, Mrs. J. R., 53.  
 McDowell, J. S., 32.  
 McDowell, M. S., 75, 76.  
 McEathron, W. J., 5.  
 McElroy, W. O., 29.  
 McEnerney, G. W., 13.  
 McFarlin, J. W., 36.  
 McFeely, E. A., 75.  
 McGarrath, S. W., 34.  
 McGregor, A. G., 35.  
 McGregor, P., 91.  
 McGuire, A. J., 48.  
 McHatton, T. H., 22.  
 McInnes, L. L., 83, 84.  
 McIntire, C. M., 26.  
 McIntire, W. H., 75, 76.  
 McIntosh, D., 26, 27.  
 McKay, A. B., 49, 50.  
 McKay, O., 91.  
 McKeever, W. A., 33.  
 McKell, J. E., 49.  
 McKenzie, A., 89.  
 McKerrow, G., 94.  
 McKinley, J. W., 13.  
 McKinley, M. B., 71.  
 McKinney, S., 81.  
 McKnight, G. H., 69.  
 McKnight, H. L., 84.  
 McLaughlin, W. W., 5, 85, 86.  
 McLean, F., 67.  
 McLean, J. A., 50.  
 McLean, M., 90.  
 McLendon, C. A., 22.  
 McLendon, J. W., 79.  
 McLester, W. C., 23.  
 McLester, Mrs. W. C., 23.  
 McLouth, F. D., 73.  
 McMillan, H. R., 76.  
 McMillin, E., 62.  
 McMullan, A. J., 21.  
 McNeil, J. H., 69.  
 McNeil, F. P., 92.  
 McNutt, J. C., 58.  
 McPherson, J. H. T., 21.  
 McPherson, W., 69.  
 McRae, E. M., 28.  
 McRae, J. P., 66.  
 Mevea, C., 38.  
 McVeety, E., 68.  
 McVicker, W. N., 89.  
 McVethy, L. B., 96, 97.  
 McWhorter, R. L., 22.  
 Macarthur, J. R., 61.  
 MacDonald, M. B., 75, 76.  
 MacDougal, F. H., 83.  
 MacGillivray, A. D., 63.  
 Machetanz, K. A., 47.  
 Mack, J. T., 68.  
 Mack, M., 34.  
 Mack, W. B., 57.  
 MacKay, L. G., 91.  
 Mackenzie, A. St. C., 35.

- MacKinnie, A., 43.  
 Mackintosh, R. S., 7, 8.  
 MacLaurin, R. D., 43,  
     44.  
 Maclean, E., 30.  
 MacLean, J. A., 24.  
 MacMurray, A., 30.  
 MacNeal, W. J., 27.  
 MacNider, G. M., 66.  
 Madaus, H. H., 29.  
 Madden, G. H., 25.  
 Madison, W. B., 77.  
 Madson, B. M., 31.  
 Madson, W. E., 30.  
 Maer, P. W., 48.  
 Magee, J. D., 34.  
 Magoffin, P. P., 68.  
 Magruder, W. H., 49.  
 Mahin, E. G., 28.  
 Mahoney, R. E., 5.  
 Main, J., 82.  
 Mairs, T. I., 75, 76.  
 Major, C., 28.  
 Major, D. R., 69.  
 Major, E. W., 14.  
 Major, H. F., 26.  
 Malde, O. G., 96.  
 Mallette, E. A., 77, 78.  
 Mallon, G. W., 68.  
 Mallory, W. L., 88.  
 Manchester, H. G., 17.  
 Mann, C. D., 78.  
 Mann, C. R., 45.  
 Manns, T. F., 70.  
 Mansell, R. E., 14.  
 Marbut, C. F., 51, 52.  
 Marelli, H., 60.  
 Marinani, U., 39.  
 Marioni, A., 12.  
 Mariotte-Davies, P., 28.  
 Marks, J. D., 38.  
 Marquette, W. G., 95.  
 Marquis, J. C., 94, 95.  
 Marr, R. A., 88.  
 Marsden, R. D., 5.  
 Marshall, C. E., 44, 46.  
 Marshall, Mrs. F. E., 54.  
 Marshall, F. R., 69.  
 Marshall, G. W., 18, 19.  
 Marshall, I. W., 36.  
 Marshall, R. R., 95, 96.  
 Marsteller, R. P., 83.  
 Marston, T. F., 44.  
 Martin, E. B., 53.  
 Martin, G. C., 43.  
 Martin, G. H., 43.  
 Martin, H. L., 7.  
 Martin, L. H. O., 21.  
 Martin, S. M., 78.  
 Martinet, Mrs. L. M.,  
     39.  
 Marty, G., 95, 96.  
 Mason, A., 9.  
 Mason, C. J., 18.  
 Mason, T. W., 45.  
 Matheson, R., 81.  
 Mathews, C. W., 35.  
 Mathewson, T. G., 77.  
 Matthews, W. C., 36.  
 Mauldin, I. M., 78.  
 Maxon, R. N., 35.  
 Maxwell, A. M., 49.  
 May, D. W., 4, 77.  
 May, E. E., 68.  
 May, V. B., 60.  
 Mayhew, S. J., 8.  
 Maynard, B. S., 25.  
 Maynard, J., 81.  
 Maynard, W. H., 82.  
 Mayne, D. D., 47.  
 Mayo, W. J., 46.  
 Meacham, F. T., 66.  
 Mead, A. E., 91.  
 Mead, E., 14.  
 Mead, R. D., 24.  
 Mead, R. G., 11.  
 Means, J. W., 71.  
 Medcraft, W. G., 11.  
 Meek, E. B., 75, 76.  
 Meharg, A. S., 48.  
 Meinzer, E. G., 34.  
 Melander, A. L., 91, 92.  
 Melcher, C. R., 35.  
 Meldrim, P. W., 22.  
 Melick, C. W., 42.  
 Mell, P. H., 5, 78.  
 Mellen, F. D., 49.  
 Melvin, M. E., 21.  
 Menefe, J. A., 71.  
 Menville, R. L., 38.  
 Merica, C. O., 96.  
 Merrill, G. F., 94.  
 Merrill, J. F., 40.  
 Merrill, L. A., 85, 86.  
 Merrill, L. H., 40.  
 Merrill, N. F., 86.  
 Merriman, E. G., 41.  
 Merrow, H. L., 77.  
 Merz, H., 96.  
 Messick, S. H., 18.  
 Metcalf, Z. P., 66.  
 Meyer, F. W., 31.  
 Meyer, G. H., 26.  
 Meyer, J. F., 74.  
 Meyers, T. R., 81.  
 Michael, L. G., 30, 32.  
 Michels, J., 65, 66.  
 Middlekauff, H., 96.  
 Middleton, A. R., 28.  
 Milham, J. A., 35.  
 Miller, A. M., 35.  
 Miller, C., 74.  
 Miller, D. G., 5.  
 Miller, E. C., 15.  
 Miller, E. R., 7.  
 Miller, F. C., 75.  
 Miller, H. A., 28.  
 Miller, J., 36.  
 Miller, J. H., 33.  
 Miller, J. O., 61.  
 Miller, M. F., 51, 52.  
 Miller, M. J., 80.  
 Miller, P. E., 80.  
 Miller, R. N., 92.  
 Miller, T. C., 93.  
 Miller, T. E., 80.  
 Millet, H. A., 40.  
 Millard, E. B., 33.  
 Mills, G. F., 43.  
 Mills, H. C., 28, 29.  
 Mills, S. P., 39.  
 Milner, R. D., 5.  
 Milner, R. T., 83, 84.  
 Milstead, J. I., 89.  
 Miltimore, C. A., 71.  
 Milward, J. G., 95.  
 Minard, A. E., 67.  
 Miner, H. L., 87.  
 Miner, L. R., 90.  
 Minkler, F. C., 59, 60.  
 Minns, E. R., 63, 64.  
 Minor, J. B., 67.  
 Minor, R. S., 57.  
 Minus, J. C., 78.  
 Mitcham, G. N., 7.  
 Mitchell, A., 83.  
 Mitchell, C. W., 66.  
 Mitchell, G., 31.  
 Mitchell, H. E., 91.  
 Mitchell, H. F., 72.  
 Mitchell, H. W., 74.  
 Mitchell, J. W., 83.  
 Mitchell, S. R., 61.  
 Mitchell, W. LeR., 8.  
 Mixter, C. W., 87.  
 Mobley, J. H., 22.  
 Moffit, E. H., 24.  
 Mohn, E., 70.  
 Mokler, A. J., 96.  
 Moncure, W. A. P., 88.  
 Moninger, W. R., 29.  
 Monosmith, P. B., 49.  
 Monroe, W. F., 87.  
 Monteith, H. R., 18.  
 Montgomery, C. W., 70.  
 Montgomery, E. G., 55,  
     56.  
 Montgomery, J. P., 49.  
 Montgomery, L. M., 71.  
 Mooers, C. A., 82.  
 Moore, A. J., 48, 50.  
 Moore, E. L., 80, 81.  
 Moore, H. E., 25.  
 Moore, H. I., 5.  
 Moore, H. J., 64.  
 Moore, J. G., 94, 95.  
 Moore, J. S., 49, 50.  
 Moore, J. W., 95.  
 Moore, P., 25.  
 Moore, R. A., 94, 95.  
 Moore, R. S., 38.  
 Moore, S. W., 12.  
 Moorehead, M. B., 47.  
 Moorhouse, L. A., 71.  
 Mooring, D. C., 49.  
 Moorman, R. M., 53.  
 Moots, E. E., 40.  
 Moran, T. F., 28.  
 Morgan, A. E., 5.  
 Morgan, G. E., 90.  
 Morgan, H. A., 82.  
 Morgan, J. F., 78.  
 Morgan, J. J., 23.  
 Morgan, J. O., 64.  
 Morlan, E. E., 51.  
 Morley, W. S., 25.  
 Morman, J. B., 4.  
 Morphis, R. W., 67.  
 Morrey, C. B., 69.  
 Morris, B. V., 93.  
 Morris, E. L., 15.  
 Morris, J., 21.  
 Morris, M. M., 31.  
 Morris, O. M., 71.  
 Morris, R., 59.  
 Morris, R. T., 62.  
 Morris, T. D., 82.  
 Morris, W., 19.  
 Morrison, C. B., 17.  
 Morrison, G. L., 90.  
 Morrison, J. H., 84.  
 Morrison, R., 30.  
 Morrison, W. S., 78.  
 Morrow, H. E., 12.  
 Morse, E. W., 4.  
 Morse, F. W., 57, 58.  
 Morse, W. J., 40.  
 Mortensen, M., 30.  
 Mortland, I., 38.  
 Morton, G. E., 16.  
 Morton, J., 61.  
 Morton, W. H., 11.  
 Moseley, J. H., 50.  
 Moses, A., 83.  
 Mosher, A., 31.  
 Mosier, J. G., 26, 27.  
 Moten, J., 53.  
 Moton, R. R., 90.  
 Moulton, C. R., 52.  
 Mower, E. C., 86.  
 Muir, F., 24.  
 Mulford, H. Du B., 59.  
 Mulvania, M., 82.  
 Mumford, F. B., 51, 52.  
 Mumford, H. W., 26, 27.  
 Mundell, J. E., 61.  
 Mundhenk, C. L., 31.  
 Munford, B. B., 89.  
 Munford, W., 9.  
 Munroe, J. M., 41.  
 Munson, W. M., 6, 92,  
     93.  
 Murray, G. S., 53.  
 Murray, N. A., 42.  
 Murrell, G. T., 22.  
 Musgrave, J. S., 87.  
 Mustaine, W. W. H., 36.  
 Mustard, L. W., 18.  
 Mynders, S. A., 81.  
 Myers, C. E., 75, 76.  
 Myers, C. H., 27.  
 Myers, H. B., 82.  
 Myers, J. L., 45.  
 Myrick, A. B., 87.  
 Nagle, J. C., 83.  
 Nalley, H., 41.  
 Napp, W. G., 39.



- Nash, C. W., 42.  
 Neal, J. W., 4, 10.  
 Neal, R. W., 43.  
 Needham, J. G., 63.  
 Neeley, J. E., 11.  
 Neely, R. C., 21, 22.  
 Neilson, J., 58, 60.  
 Nelson, A., 96, 97.  
 Nelson, A. P., 94.  
 Nelson, B. F., 46.  
 Nelson, E., 5, 25.  
 Nelson, J., 59, 60.  
 Nelson, J. B., 54.  
 Nelson, M., 12, 13.  
 Nelson, N. D., 67.  
 Nelson, R. J., 12.  
 Nelson, S. B., 91, 92.  
 Nesbit, A. F., 57.  
 Nesbit, M. F., 34.  
 Ness, H. (Iowa), 31.  
 Ness, H. (Tex.), 83, 84.  
 Nettleton, M. W., 90.  
 Newbern, H. E., 21.  
 Newbury, W. R., 66.  
 Newell, W., 38.  
 Newman, C., 45.  
 Newman, C. C., 79.  
 Newman, C. L., 65.  
 Newman, C. M., 88.  
 Newman, J. T., 62.  
 Newton, J. T., 21.  
 Newton, W. R., 59.  
 Nicholas, N., 82.  
 Nichols, C. B., 35.  
 Nichols, E. R., 32, 33.  
 Nichols, H. S., 50.  
 Nicholson, J. F., 71.  
 Nicholson, J. W., 37.  
 Nickerson, W. J., 39.  
 Niederhauser, S. W., 75.  
 Nix, N. C., 80.  
 Nixon, C., 64.  
 Noble, A. B., 30.  
 Noble, E. C., 55.  
 Noble, M. C. S., 66.  
 Nock, N. W., 89.  
 Noe, J. T. C., 35.  
 Noel, E. F., 48, 50.  
 Noel, H. L., 49.  
 Noel, J. C., 36.  
 Noell, R. J., 87.  
 Nolan, A. W., 93.  
 Noll, C. F., 75, 76.  
 Norby, A. J., 80.  
 Norcross, P., 94.  
 Norgord, C. P., 95.  
 Norman, A. J., 41, 42.  
 Norment, J. W., 48.  
 Norris, R. S., 24.  
 Northrop, C., 46, 47.  
 Northrop, R. S., 85, 86.  
 Northrop, Z., 45, 46.  
 Norton, G. I., 31.  
 Norton, H. W., jr., 45, 46.  
 Norton, J. B. S., 41, 42.  
 Norton, J. H., 14, 15.  
 Nottingham, A. R., 83.  
 Nourse, D. O., 79.  
 Nugent, C. E., 67, 68.  
 Nutter, J. H., 42.  
 Nutter, J. W., 36.  
 Nye, W. McE., 28.  
 Nystrom, A. B., 70.  
 Oak, J. M., 39.  
 Oberdorffer, W. J., 44.  
 Obrecht, R. C., 26, 27.  
 O'Brien, W., 16.  
 Ocock, C. A., 94, 95.  
 Ogden, E. L., 4.  
 Ogden, R. C., 9, 89.  
 Ogilvie, W. W., 81.  
 O'Hanlon, W., 62.  
 Olcott, J. B., 17.  
 Olive, E. W., 81.  
 Oliver, H., 34.  
 Oliver, J. D., 28.  
 Oliver, T. E., 26.  
 Olmsted, M. E., 74.  
 Olsen, J. W., 46, 47, 48.  
 Olson, G. A., 92.  
 Olson, O. M., 91.  
 Olwell, J. D., 72.  
 Opperman, C. L., 42.  
 Ormsbee, E. J., 86.  
 Orr, E. J., 29.  
 Orton, W. A., 89.  
 Orvis, E. L., 74.  
 Osborn, H., 69.  
 Osborne, M. G., 38.  
 Osborne, T. B., 17.  
 Osmun, A. V., 43.  
 Ostrander, J. E., 43, 44.  
 Oswald, W. L., 47.  
 Otey, M. J., 71.  
 Otis, D. H., 94, 95.  
 Owen, E. B., 65.  
 Owen, E. J., 60.  
 Owen, I. L., 60.  
 Owen, S. M., 46.  
 Owen, W. L., 38.  
 Owens, J. R., 41, 42.  
 Paddock, W., 16.  
 Page, I. E., 72.  
 Paige, E. O., 21.  
 Paige, J. B., 43, 44.  
 Palmer, G. S., 17.  
 Palmer, J. H., 10.  
 Palmer, M. A., 17.  
 Paltridge, J. C., 45.  
 Pammel, L. H., 30, 32.  
 Panter, C. R., 39.  
 Park, J., 81.  
 Park, J. A., 65.  
 Park, J. B., (Ga.), 22.  
 Park, J. B. (Ill.), 27.  
 Park, R. E., 21.  
 Parker, C. E., 19.  
 Parker, H. C., 85.  
 Parker, J. B., 34.  
 Parker, J. T., 34.  
 Parker, L. M., 18.  
 Parker, T. B., 66.  
 Parker, W. H., 45.  
 Parker, W. M., 57.  
 Parmelee, C. W., 59.  
 Parr, S. C., 26.  
 Parrish, G. R., 89.  
 Parrish, J. C., 51.  
 Parrott, A. H., 68.  
 Parrott, J. R., 88.  
 Parrott, P. J., 62.  
 Parrott, R. B., 59.  
 Parsons, C. L., 57.  
 Patch, E. M., 40.  
 Pate, W. F., 70.  
 Patrick, B. S., 7.  
 Pattee, F. L., 74.  
 Pattee, G. K., 75.  
 Patten, A. J., 46.  
 Patten, D. W., 17.  
 Pattengill, E. A., 30.  
 Patterson, B. C., 17.  
 Patterson, C. H., 92.  
 Patterson, E. P., 9.  
 Patterson, H. J., 42.  
 Patterson, J. K., 35.  
 Patterson, W. C., 76.  
 Patterson, W. K., 35.  
 Patton, C. A., 70.  
 Patton, E. H., 50.  
 Paull, L. D., 16.  
 Paull, L. F., 16.  
 Payne, W. L., 25.  
 Payne, W. O., 22.  
 Paynter, E. R., 18.  
 Paynter, W. C., 52.  
 Payson, E. R., 59.  
 Payson, G. H., 59.  
 Peabody, F. G., 89.  
 Peabody, G. F., 9, 89.  
 Pears, L. M., 41, 42.  
 Pearl, R., 40.  
 Pearson, Mrs. D. E., 23.  
 Pearson, G. E., 40.  
 Pearson, H., 22.  
 Peck, A. L., 73.  
 Peck, C., 86, 87.  
 Peck, R. R., 38.  
 Peck, S. S., 24.  
 Pederson, N. A., 85.  
 Peek, E. L., 22.  
 Pegues, B. W., 37.  
 Pember, F. R., 78.  
 Penny, C. L., 74, 76.  
 Pence, M. L., 35.  
 Pennewill, J., 18.  
 Pennycook, J., 16.  
 Peppard, L. L., 45.  
 Perin, S. W., 56.  
 Percy, E. M., 38.  
 Perkins, A. E., 51, 52.  
 Perkins, E. T., 32.  
 Perkins, G. H., 86.  
 Perkins, H. F., 87.  
 Perkins, R. C. L., 24.  
 Perkins, S. O., 66.  
 Perkins, W. R., 49, 50.  
 Pernot, E. F., 73.  
 Perky, S. H., 64.  
 Perry, H. R., 85.  
 Peteet, W., 83, 84.  
 Peter, A. M., 36.  
 Peters, A. T., 55, 56.  
 Peters, A. W., 26.  
 Peters, L., 31.  
 Peterson, E. G., 85.  
 Peterson, W., 85.  
 Petrie, G., 7.  
 Pettee, C. H., 57.  
 Pettis, C. R., 87.  
 Pettit, J. H., 26, 27.  
 Pettit, R. H., 45, 46.  
 Petty, L. E., 34.  
 Pew, W. H., 58.  
 Pfersch, C. L., 60.  
 Pfotenhauer, W., 24.  
 Phares, J., 50.  
 Phenix, G. P., 90.  
 Philbeck, R. E., 12.  
 Philbrick, A. E., 55.  
 Phillips, A. G., 34.  
 Phillips, C. L., 81.  
 Phillips, F. J., 55, 56.  
 Phillips, J. McL., 69.  
 Pickel, F. W., 12.  
 Pickel, J. M., 66.  
 Pickett, B. S., 58.  
 Pierce, H. C., 30, 32.  
 Pierce, L., 95.  
 Pierce, W. M., 72.  
 Pierpont, A. J., 17.  
 Pigeon, F. G., 53.  
 Pillsbury, J. P., 75, 76.  
 Pillsbury, R. W., 57.  
 Pillsbury, W. L., 25.  
 Pinckney, R. M., 54.  
 Pincomb, H. M., 26.  
 Pindall, X. O., 11.  
 Pinkett, D. J., 42.  
 Pittuck, B. C., 71.  
 Placeway, L. A., 30.  
 Plumb, C. S., 69.  
 Plummer, J. K., 66.  
 Poats, T. G., 79.  
 Pollard, A. G., 43.  
 Pomerene, F. E., 68.  
 Pomeroy, C. S., 44.  
 Pompey, R. S., 10.  
 Pond, G. G., 74.  
 Pool, R. J., 55.  
 Pool, V. W., 56.  
 Pope, W. T., 23.  
 Popenoe, C. H., 89.  
 Porter, B. E., 23.  
 Porter, C. W., 85.  
 Porter, H. E., 34.  
 Porter, J. T., 82.  
 Porter, W. R. (Cal.), 13.  
 Porter, W. R. (N. Dak.), 68.  
 Porter, W. W., 73.  
 Post, C., 93.  
 Post, H. L., 95.  
 Potter, A. A., 33.



- Potter, E. L., 73.  
 Potter, P. D., 75.  
 Potter, W. R., 24.  
 Potts, R. C., 71.  
 Potts, R. J., 83.  
 Potts, S. A. E., 53.  
 Powell, E. H., 86, 87.  
 Powell, E. J., 21.  
 Powell, I., 85.  
 Powell, J. H., 50.  
 Powell, J. S., 85.  
 Powell, S. E., 10.  
 Powers, D. T., 38.  
 Powers, H. H., 86.  
 Powers, J. N., 48, 50.  
 Powers, M. R., 78.  
 Powers, W. H., 81.  
 Powers, W. L., 61.  
 Pratt, C. D., 90.  
 Pratt, F. R., 59.  
 Pratt, G. K., 37.  
 Preis, W. H., 39.  
 Prentiss, R. W., 59.  
 Prescott, A. T., 37.  
 Preston, C. H., 43.  
 Price, A. M., 90.  
 Price, H. C., 69.  
 Price, H. L., 88.  
 Price, R. B., 51, 52.  
 Price, R. R., 33.  
 Prien, O. L., 96, 97.  
 Prillerman, B., 93.  
 Prince, W. E., 40.  
 Pringle, C. G., 87.  
 Pritchard, F. J., 64.  
 Privott, W. W., 42.  
 Proulx, E. G., 29.  
 Prouty, G. F., 86.  
 Prucha, M. J., 62.  
 Pryor, J. W., 35.  
 Publow, C. A., 63, 64.  
 Pullen, M. W., 31.  
 Pulley, E. P., 85.  
 Purdum, J. L., 35.  
 Purdue, A. H., 12.  
 Purington, D. B., 92.  
 Puryear, C., 83.  
 Putnam, F. W., 58.  
 Putnam, G. A., 6.  
 Putnam, R., 62.  
 Pyle, C. A., 47, 48.  
  
 Quantz, W., 78.  
 Quayle, H. J., 14, 15.  
 Quereau, F. C., 82.  
 Quick, E., 90.  
 Quick, W. J., 88.  
 Quigley, J. E., 74.  
  
 Radford, J. B., 67.  
 Ragan, W. H., 65.  
 Raggio, A. P., 40.  
 Rahn, O., 46.  
 Ralston, W. E., 91, 92.  
 Ramsey, H. J., 14, 15.  
 Ramsey, J. B., 10.  
 Ramsey, J. R., 50.  
 Ramsey, W. A., 12.  
 Ramsower, H. C., 70.  
 Randall, D. L., 58.  
 Randlett, G. W., 67.  
 Rane, F. W., 43.  
 Rankin, F. H., 26.  
 Ransom, A. McB., 8.  
 Ransom, J. H., 28.  
 Rasche, W. H., 88.  
 Rasmusson, F., 58.  
 Rather, J. B., 84.  
 Rausch, M. F., 16.  
 Ravenel, M. P., 94, 95.  
 Ray, J. E., 41.  
 Ray, P. O., 74.  
 Raymond, W. R., 31.  
 Rea, H. K., 53.  
 Read, A. C., 74.  
 Read, W. A., 37.  
 Reade, J. M., 21.  
 Readhimer, J. E., 27.  
 Reber, L. E., 94.  
 Reddick, D., 63, 64.  
 Redfern, A. M., 79.  
 Redifer, A. E., 75.  
 Reed, A. G., 38.  
 Reed, E. E., 37.  
 Reed, G. M., 51, 52.  
 Reed, H. S. (Mich.), 45.  
 Reed, H. S. (Va.), 88.  
 Reed, J. C., 44.  
 Reed, L. J., 40.  
 Reed, O. E., 52.  
 Reed, W. W., 83.  
 Reeder, G., 51, 52.  
 Reese, A. M., 92.  
 Reese, H. M., 51.  
 Regt, A. C. de, 59.  
 Reid, I. C., 11.  
 Reid, L. O., 38.  
 Reid, W. D., 38.  
 Reid, W. M., 89.  
 Reimer, F. C., 65, 66.  
 Reinstein, J. B., 13.  
 Remick, B. L., 33.  
 Remington, R. E., 68.  
 Rentschler, M. J., 75.  
 Reynolds, E., 18.  
 Reynolds, J., 34.  
 Reynolds, J. H., 12.  
 Reynolds, M. H., 47, 48.  
 Reynolds, P. L., 43.  
 Rhea, J. L., 81.  
 Rhoades, L. A., 69.  
 Rhys, A., 52.  
 Rice, A., 33.  
 Rice, A. E., 46.  
 Rice, J. E., 63, 64.  
 Rice, T., 70.  
 Rich, F. A., 86, 87.  
 Richards, J. C., Jr., 78.  
 Richards, W. B., 67, 68.  
 Richardson, C. S., 41.  
 Richardson, M. R., 65.  
 Richeson, W. L., 39.  
 Rickman, J. D., 33.  
 Ricks, J. R., 49.  
 Ricks, R. H., 65.  
 Ridenour, A. E., 33.  
 Ridgaway, C. B., 96, 97.  
 Ridgway, J. W., 8.  
 Riegelhuth, K., 57.  
 Riegger, E. H., 90.  
 Rietz, H. L., 27.  
 Riggs, J. F., 29.  
 Riggs, W. M., 78.  
 Riley, H. W., 63.  
 Riley, W. A., 63.  
 Rine, C. W., 52.  
 Rinkle, L. G., 51, 52.  
 Ritzman, E. G., 4, 77.  
 Rivarde, R., 39.  
 Robbins, E. T., 31, 32.  
 Roberts, G., 36.  
 Roberts, G. A., 65, 66.  
 Roberts, G. L., 28.  
 Roberts, H. F., 33, 34.  
 Roberts, I. P., 63.  
 Roberts, J. A., 39.  
 Roberts, M. M., 30.  
 Roberts, O. S., 29.  
 Roberts, R., 86.  
 Roberts, W. J., 91.  
 Robertson, G. H., 24.  
 Robertson, W., 48.  
 Robinson, D., 48.  
 Robinson, E., 87.  
 Robinson, J. M., 53.  
 Robinson, J. S., 41.  
 Robinson, R. R., 10.  
 Robinson, W. A., 45.  
 Robinson, W. F., 67.  
 Rockafellow, B. F., 15.  
 Rockwell, A. B., 90.  
 Rockwell, W. L., 5.  
 Rodeheaver, J. N., 80.  
 Rodell, E. N., 33.  
 Rodman, C. W., 17.  
 Roe, H. B., 47, 48.  
 Roeding, F. W., 5.  
 Rogers, A. J., jr., 95.  
 Rogers, B. R., 34.  
 Rogers, C. A., 63, 64.  
 Rogers, F. K., 89.  
 Rogers, M., 84.  
 Rolfe, C. W., 26.  
 Rolfs, F. M., 52.  
 Rolfs, P. H., 5, 20.  
 Rollins, W. C., 84.  
 Roper, J. W., 15.  
 Roos, C. E., 39.  
 Rose, A. R., 62.  
 Rose, C. G., 67.  
 Rose, F., 64.  
 Rose, W., 81.  
 Rosenberg, J. H., 87.  
 Rosenberg, P., 45.  
 Roskrige, G. J., 11.  
 Ross, B. B., 7, 8.  
 Ross, E. J., 71.  
 Ross, H. E., 63.  
 Ross, W. G., 23.  
 Ross, W. H., 11.  
 Roston, J. M., 23.  
 Rouce, J. A., 71.  
 Rounds, F. M., 45.  
 Rouse, I., 62.  
 Rousseau, E. H., 38.  
 Routten, W. W., 49.  
 Rowan, L. J., 50.  
 Rowe, W. E., 35.  
 Rowell, C., 13.  
 Rowell, T. D., 83, 84.  
 Rowland, S. A., 12.  
 Rudd, W. N., 82.  
 Rudolph, D. E., 34.  
 Rudolph, R., 85.  
 Rudy, A., 65.  
 Ruggles, A. G., 47, 48.  
 Rule, W., 81.  
 Rumsey, W. E., 92, 93.  
 Rundall, M., 31.  
 Runk, J. A., 75, 76.  
 Runkle, E. W., 74.  
 Rush, B. F., 13.  
 Rusk, H. P., 52.  
 Russell, A. R., 66.  
 Russell, F. L., 40.  
 Russell, H. L., 94, 95.  
 Russell, M., 34.  
 Russell, S. M., 10.  
 Rutherford, J. F., 12.  
 Rutland, J. R., 8.  
 Rutledge, C. T., 53.  
 Ryder, E. H., 45.  
  
 Sackett, H. W., 62.  
 Sackett, W. G., 16.  
 Safford, R., 31.  
 St. Clair, P. F., 87.  
 St. Martin, F. L., 39.  
 Salyer, S. M., 22.  
 Sammis, J. L., 94, 95.  
 Sampson, D. L., 70.  
 Sampson, G. M., 21.  
 Sampson, H. C., 91.  
 Sanborn, F. E., 69.  
 Sandell, H., 95.  
 Sanders, J. Y., 37, 38.  
 Sanders, M. B., 71.  
 Sanders, S. T., 38.  
 Sanderson, E. D., 57, 58.  
 Sandoz, B. J., 38.  
 Sandsten, E. P., 94, 95.  
 Sanford, E. T., 81.  
 Sanford, F. H., 45.  
 Sanford, S. V., 21.  
 Sanderson, J. N., 81.  
 Savage, E. S., 63.  
 Savage, J. T., 50.  
 Sawyer, A. R., 45.  
 Saxton, H. G., 91.  
 Sayer, W. S., 45, 46.  
 Scammon, R. M., 57.  
 Schaeffer, N. C., 74.  
 Schafer, E. G., 34.  
 Schaffner, J. H., 69.  
 Schaphorst, W. F., 61.  
 Schaub, I. O., 30, 32.

- Scheffer, T. H., 33.  
 Schenck, L. H., 58.  
 Scherffius, B. F., 36.  
 Scherffius, W. H., 36.  
 Schieffelin, W. J., 9,  
 89.  
 Schmelz, H. L., 89.  
 Schmidt, L. B., 30.  
 Schmitt, C. D., 82.  
 Schmitz, N., 42.  
 Schnabel, J., 52.  
 Schoene, W. J., 62.  
 Schoenleber, F. S., 33,  
 34.  
 Scholl, E., 83.  
 Schollander, E. G., 68.  
 Schoppe, W. F., 54.  
 Schuler, C., 38.  
 Schulte, J. I., 4.  
 Schultz, L., 70.  
 Schlundt, H., 51.  
 Schurman, J. G., 62, 63.  
 Schwab, C. M., 74.  
 Schweitzer, P., 51, 52.  
 Scott, A., 59.  
 Scott, C. A., 30, 32.  
 Scott, C. B., 93.  
 Scott, C. W., 57.  
 Scott, E. L., 37.  
 Scott, F. A. R., 81.  
 Scott, F. W., 26.  
 Scott, G. E., 70.  
 Scott, J. M., 20.  
 Scott, M., 37.  
 Scott, R. W., 66.  
 Scott, R. W., jr., 66.  
 Scovell, M. A., 5, 36.  
 Scoville, W. H., 89.  
 Scroggs, W. O., 38.  
 Scudder, E. N., 50.  
 Scudder, H. D., 72, 73.  
 Scudder, M. T., 59.  
 Seagle, G. E., 18.  
 Searing, N. L., 70.  
 Searle, J. P., 58.  
 Sears, F. C., 43, 44.  
 Sears, W. J., 68.  
 Sease, L. A., 78, 79.  
 Seaton, R. A., 33.  
 Sebastian, S. P., 67.  
 Sebastian, W. P., 83,  
 84.  
 Secrest, E., 70.  
 Segall, J. B., 40.  
 Selbert, D., 41.  
 Selby, A. D., 70.  
 Seldomridge, H. G., 71.  
 Sessums, I. D., 49.  
 Setchell, W. A., 13, 14.  
 Seth, J. B., 41.  
 Severance, G., 91, 92.  
 Severance, R. C., 23.  
 Sewell, A. H., 62.  
 Seymour, J., 40.  
 Shackell, L. F., 51, 52.  
 Shafer, F. A., 24.  
 Shafer, F. F., 5.  
 Shafer, G. D., 45, 46.  
 Shanklin, A. G., 79.  
 Shanks, L. P., 25.  
 Shannon, E. F., 12.  
 Shattuck, C. H., 78.  
 Shattuck, S. W., 25.  
 Shaw, C. F., 75, 76.  
 Shaw, G. W., 13, 14.  
 Shaw, H. B., 87.  
 Shaw, L. I., 43.  
 Shaw, M. A., 51.  
 Shaw, R. H., 51, 52.  
 Shaw, R. S., 44, 46.  
 Shaw, S. B., 66.  
 Shaw, W. T., 91, 92.  
 Shedd, O. M., 36.  
 Sheldon, C. H., 15.  
 Sheldon, J. L., 93.  
 Sheldon, S. R., 25.  
 Shepard, C. S., 62.  
 Shepard, J. H., 80, 81.  
 Shepperd, A., 68.  
 Shepperd, J. H., 67, 68.  
 Shepperd, J. L., 47.  
 Sherman, F., jr., 66.  
 Sherman, L. A., 55.  
 Sherwin, M. E., 14, 15.  
 Shi, B. L., 8.  
 Shields, J. F., 74.  
 Shields, R. L., 70.  
 Shines, P. L., 9.  
 Shinn, E. H., 12.  
 Shinn, J. R., 25.  
 Shivers, A. O., 8.  
 Shockley, A. R., 42.  
 Shoemaker, C. E., 28.  
 Shoesmith, V. M., 69.  
 Shore, N. D., 60.  
 Short, A. K., 12, 13.  
 Short, E. J., 33.  
 Shugert, S. P., 19.  
 Shute, W. W., 60.  
 Shuttuck, F. V., 31.  
 Sibley, H. W., 62.  
 Sieber, E. L., 34.  
 Siecke, E. O., 91.  
 Sigerfoos, E., 48.  
 Siler, W. D., 66.  
 Silvester, R. W., 41.  
 Simmons, L. Van T.,  
 75.  
 Simms, G., 42.  
 Simpson, H. H., 61.  
 Simpson, O. G., 73.  
 Simpson, R. O., 9.  
 Simpson, R. W., 78.  
 Singler, J. J., 95, 96.  
 Singleton, C. B., 11.  
 Sirrine, F. A., 62.  
 Sisson, L. M., 90.  
 Sisson, S., 69.  
 Skinner, B. S., 65.  
 Skinner, C. A., 55.  
 Skinner, J. H., 28, 29.  
 Skinner, J. J., 75.  
 Slack, C. W., 13.  
 Slagle, R. L., 80.  
 Slater, E. K., 47.  
 Sledd, A., 20.  
 Slingerland, M. V., 63,  
 64.  
 Sloan, P. H. E., 78.  
 Slobin, H. L., 45.  
 Slocum, A. W., 86.  
 Smart, T., 84.  
 Smith, A., 49.  
 Smith, A. G., 37.  
 Smith, A. M., 47.  
 Smith, A. W., 25.  
 Smith, C. A., 46.  
 Smith, C. C., 10.  
 Smith, C. M., 28.  
 Smith, C. O., 14, 15.  
 Smith, C. P., 85.  
 Smith, D. P., 35.  
 Smith, E. C., 85.  
 Smith, E. H., 14.  
 Smith, E. O., 18.  
 Smith, F., 26.  
 Smith, F. A., 97.  
 Smith, F. H., 77.  
 Smith, G. A., 62.  
 Smith, G. E. P., 11.  
 Smith, H., 85.  
 Smith, H. F., 31.  
 Smith, H. M., jr., 87.  
 Smith, H. R., 55, 56.  
 Smith, J. B., 59, 60.  
 Smith, J. E., 34.  
 Smith, J. T., 90.  
 Smith, J. W., 70.  
 Smith, L. (Ky.), 37.  
 Smith, L. (Mich.), 45,  
 46.  
 Smith, L. B., 75.  
 Smith, L. H., 26, 27.  
 Smith, L. J., 45.  
 Smith, M. E., 10.  
 Smith, O. C., 18.  
 Smith, O. J., 56.  
 Smith, O. J. B., 31.  
 Smith, P. H., 44.  
 Smith, R., 53.  
 Smith, R. E., 14, 15.  
 Smith, R. F., 83.  
 Smith, R. I., 65, 66.  
 Smith, R. O., 59.  
 Smith, W. B., 39.  
 Smith, W. G., 23.  
 Smith, W. O., 24.  
 Smith, W. S. T., 56.  
 Smith, W. W., 28.  
 Smyth, E. A., jr., 88.  
 Snapp, C. L., 71.  
 Snelling, C. M., 21.  
 Snodgrass, A. D., 50.  
 Snodgrass, M. D., 4, 10.  
 Snow, C. M., 90.  
 Snow, F. C., 54.  
 Snyder, A. H., 32.  
 Snyder, H., 47, 48.  
 Snyder, J. L., 5, 44.  
 Snyder, W. P., 56.  
 Sommers, S. L., 4.  
 Sonna, A. J., 25.  
 Sorley, L. S., 37.  
 Sorrell, E. W., 39.  
 Souchereau, J. E., 56.  
 Soule, A. M., 5, 6, 21,  
 22.  
 Soulen, P., 25.  
 Southall, J. P. C., 7.  
 Spafford, F. A., 80.  
 Spangler, S. M., 82.  
 Sparks, E. E., 74.  
 Spaulding, M. H., 54.  
 Spears, H. D., 36.  
 Spence, D. W., 83.  
 Spence, T. H., 41.  
 Spencer, A. P., 88.  
 Spencer, J., 88.  
 Spencer, J. G., 50.  
 Spencer, J. W., 64.  
 Spencer, R. A., 58.  
 Spencer, W. S., 77.  
 Spicker, W., 85.  
 Spinney, L. B., 30.  
 Spitzer, G. W., 29.  
 Spoon, J. P., 65.  
 Spragg, F. A., 46.  
 Sprague, C. A., 65.  
 Sprague, R. J., 40.  
 Spriggs, W. A., 93.  
 Stackhouse, H. M., 78.  
 Stadtmueller, F. H., 17.  
 Stahl, H. G., 77.  
 Stahl, H. S., 88.  
 Stanley, L., 51.  
 Stanley, C. H., 41.  
 Standley, P. C., 61.  
 Stange, C. H., 30, 32.  
 Stangeland, C. E., 91.  
 Stanton, E. W., 29, 30.  
 Staples, E., 47.  
 Stark, C. R., 49.  
 Stark, W., 49.  
 Starks, D. A., 21.  
 Stathers, M., 93.  
 Stayer, E. S., 19.  
 Stecker, H. F., 75.  
 Stedman, J. M., 51, 52.  
 Steeb, C. E., 68.  
 Steenbock, H., 95.  
 Stene, A. E., 77.  
 Stephens, L., 31.  
 Stephens, R. P., 21.  
 Sterry, F. D., 40.  
 Stetson, C. B., 87.  
 Stetson, I. K., 39.  
 Stevens, A. T., 18.  
 Stevens, F. D., 9.  
 Stevens, F. L., 65, 66.  
 Stevens, H. L., 96.  
 Stevens, Mrs. J. A., 90.  
 Stevens, J. I., 42.  
 Stevens, J. S., 40.  
 Stevens, O. A., 34.  
 Stevens, W. H., 18.  
 Stevenson, E. L., 59.  
 Stevenson, W. H., 30,  
 32.

- Stewart, F. C., 62.  
 Stewart, J. H., 93.  
 Stewart, J. P., 75, 76.  
 Stewart, J. S., 22.  
 Stewart, J. T., 47.  
 Stewart, M. A., 93.  
 Stewart, O. M., 51.  
 Stewart, R., 85, 86.  
 Stickley, M. B., 65.  
 Stinard, J. F., 75.  
 Stoddart, C. W., 94, 95.  
 Stockham, W. L., 68.  
 Stocking, W. A., jr., 63, 64.  
 Stockly, J. C., 18.  
 Stockton, F., 61.  
 Stohl, L. N., 84.  
 Stoll, R. C., 35.  
 Stollenberg, F. C., 81.  
 Storm, A. V., 32.  
 Storms, A. B., 5, 30.  
 Stone, A. L., 95.  
 Stone, B. N., 67.  
 Stone, C. W. (N. H.), 57.  
 Stone, C. W. (Pa.), 74.  
 Stone, E. A., 96.  
 Stone, G. E., 43, 44.  
 Stone, I. V., 41.  
 Stone, J. L., 63, 64.  
 Stone, R. E., 55.  
 Stone, W. E., 5, 28.  
 Stoneburn, F. H., 18.  
 Stoneking, J. B., 61.  
 Stoner, M. A., 96.  
 Storrs, L. J., 17.  
 Story, A. M., 32.  
 Stouder, K. W., 35.  
 Stout, F. O., 36.  
 Stout, O. V. P., 5, 56.  
 Stout, R. L., 35.  
 Stover, A. P., 5.  
 Stover, M. E., 15.  
 Strahan, C. M., 21.  
 Straus, I. L., 41.  
 Street, J. P., 17.  
 Strong, G., 9.  
 Stuart, E. S., 74.  
 Stuart, W., 87.  
 Stubbs, J. E., 56, 57.  
 Stuckey, H. P., 22.  
 Stumberg, C. H., 37.  
 Stump, G., 33.  
 Sudro, W. F., 68.  
 Sugden, G., 90.  
 Suggs, D. C., 22.  
 Summers, A. C. S., 29.  
 Summers, H. E., 6, 30, 32.  
 Summers, J. C., 38.  
 Summers, J. N., 44.  
 Summey, G., jr., 65.  
 Sunderland, J., jr., 56.  
 Surface, F. M., 40.  
 Suzuki, S. K., 95.  
 Swanson, C. O., 34.  
 Swanzy, F. M., 24.  
 Swartwout, A. M., 52.  
 Sweeney, M. P., 62.  
 Sweet, B., 25.  
 Sweet, E. S., 24.  
 Sweet, H. L., 40.  
 Sweetser, W. S., 90.  
 Swenk, M. H., 55, 56.  
 Swenson, M., 94.  
 Swezey, G. D., 55.  
 Swezey, O. H., 24.  
 Swingle, D. B., 54.  
 Swire, R. P., 37, 38.  
 Switzler, I., 52.  
 Sylvester, W. W., 95.  
 Syme, W. A., 65, 66.  
 Symons, T. B., 41, 42.  
 Sypherd, W. O., 19.  
 Taft, L. R., 44, 46.  
 Taggart, L., 31.  
 Taggart, W. G., 38.  
 Tailby, G. W., 64.  
 Tailby, G. W., jr., 63, 64.  
 Taillandier, G., 73.  
 Tait, C. E., 5.  
 Taliaferro, T. H., 41.  
 Taliaferro, W. T. L., 41.  
 Tallant, J. G., 57.  
 Tallman, W. D., 51.  
 Tannatt, E. T., 54.  
 Tanner, H. T., 50.  
 Tanner, J. T., 38.  
 Tartar, H. V., 73.  
 Tartar, N., 73.  
 Tate, D., 87.  
 Tate, W. A., 10.  
 Tatam, W. C., 81.  
 Tatum, C. S., 83.  
 Taussig, R. J., 13.  
 Taylor, W. H., 9.  
 Taylor, E., 32.  
 Taylor, E. J., 90.  
 Taylor, E. P., 52.  
 Taylor, F. W., 57, 58.  
 Taylor, G. B., 36.  
 Taylor, G. H., 56.  
 Taylor, H. C., 94.  
 Taylor, H. L., 62.  
 Taylor, L. J., 42.  
 Taylor, L. L., 58.  
 Taylor, O. M., 62.  
 Taylor, R. M., 45.  
 Taylor, S. S., 42.  
 Taylor, W. A., 6.  
 Taylor, W. G. L., 55.  
 Teele, R. P., 5.  
 Teeter, H. W., 64.  
 Teetzel, C. T., 85.  
 Temple, J. C., 22.  
 Ten Eyck, A. M., 33, 34.  
 Tenney, E. D., 24.  
 Terrell, R. C., 36.  
 Terrill, A. C., 25.  
 Terrill, C. B., 35.  
 Terry, F. W., 24.  
 Terry, O. P., 28.  
 Terry, R., 58.  
 Terry, W. K., 7.  
 Tessman, W. O., 90.  
 Thach, C. C., 7.  
 Thatcher, G. W., 85.  
 Thatcher, R. W., 91, 92.  
 Theophile, E. M., 39.  
 Thestrup, H. V. F. de, 87.  
 Thiel, J. J., 91.  
 Thiessen, A. H., 65.  
 Thom, C., 18.  
 Thomas, A. J., 12.  
 Thomas, A. T., 18.  
 Thomas, B. F., 69.  
 Thomas, D. W., 38.  
 Thomas, D. Y., 12.  
 Thomas, E., 87.  
 Thomas, E. K., 77.  
 Thomas, G., 83, 85.  
 Thomas, J. L., 83.  
 Thomas, S. F., 81.  
 Thomas, W. A., 79.  
 Thomas, W. H., 83.  
 Thomas, W. R., 16.  
 Thompson, A. R., 4, 23.  
 Thompson, A. S., 31.  
 Thompson, C. A., 58.  
 Thompson, C. D., 31.  
 Thompson, F., 19.  
 Thompson, F. F., 59.  
 Thompson, G. A., 40.  
 Thompson, L., 57.  
 Thompson, L. B., 22.  
 Thompson, O. A., 68.  
 Thompson, R. E., 38.  
 Thompson, W. O., 5, 69.  
 Thornber, J. J., 11.  
 Thornber, W. S., 91, 92.  
 Thorne, C. E., 5, 70.  
 Thornhill, J. L., 93.  
 Thornton, E. W., 8.  
 Thornton, J. R., 37.  
 Thurtell, H., 56.  
 Thwaits, F. C., 94.  
 Tibert, G. L., 68.  
 Tiebout, G., 38.  
 Tiffany, H. E., 19.  
 Tilden, W., 31.  
 Tillman, B. R., 78.  
 Tillman, J. N., 12.  
 Tillman, O. I., 11.  
 Tinkey, K., 33.  
 Tinsley, J. D., 61.  
 Titsworth, A. A., 59.  
 Titus, E. G., 85, 86.  
 Tobin, H. H., 73.  
 Todd, C. C., 91.  
 Tolman, G., 77.  
 Tompkins, D. A., 65.  
 Tompkins, D. G., 31.  
 Tompkins, H. F., 43.  
 Tottingham, W. E., 95.  
 Tourgee, C. H., 12, 13.  
 Tourtellot, I. A., 90.  
 Towar, J. D., 96, 97.  
 Tower, G. E., 40.  
 Tower, W. V., 4, 77.  
 Townsend, H. L., 90.  
 Townsend, J. A., 90.  
 Townsend, M. E., 58.  
 Tracy, N., 29.  
 Trash, J. A., 21.  
 Treman, C. E., 62.  
 Treman, R. H., 62.  
 Trescot, K. B., 79.  
 Trezevant, M. B., 81.  
 Trigg, E. P., 42.  
 Trigg, F., 42.  
 Trimble, R. E., 16.  
 Troop, J., 28, 29.  
 Trotter, J. R., 92.  
 Trotman, J. F., 94.  
 Trowbridge, E. A., 51, 52.  
 Trowbridge, P. F., 51, 52.  
 Troy, H. C., 64.  
 True, A. C., 4, 5, 10, 23, 77.  
 True, G. H., 5, 56, 57.  
 Trueblood, R. B., 28.  
 Trueman, J. M., 18.  
 Truitt, W. B., 65.  
 Trumbull, R. S., 55, 56.  
 Truscott, F. W., 93.  
 Tuck, C. H., 63.  
 Tucker, H. McK., 65.  
 Tucker, R. L., 48.  
 Tudor, J. H., 75.  
 Tulane, V. H., 9.  
 Tullis, R. L., 37.  
 Tullose, J. O., 32.  
 Tunnell, E. W., 19.  
 Tuohy, J., 15.  
 Tupper, F., jr., 86.  
 Turner, A. A., 10.  
 Turner, H. B., 89.  
 Turner, J. D., 36.  
 Turner, L., 82.  
 Turner, W. D., 65.  
 Turner, W. F., 8.  
 Turpeau, A., 42.  
 Turpin, G. M., 85, 86.  
 Turrell, C. A., 11.  
 Tuthill, J. E., 36.  
 Tuttle, F. E., 35.  
 Tuttle, M. I., 95.  
 Tuttle, M. L., 82.  
 Twitchell, M. W., 90.  
 Tyler, J., 82.  
 Tyler, M. H., 77.  
 Uggams, C. H., 80.  
 Ulio, J., 67.  
 Ulsamer, M., 90.  
 Upson, I. S., 58, 59, 60.  
 Urquhart, J., 90.  
 Usher, S., 26.  
 Utt, C. A. A., 34.  
 Valley, O., 33.  
 Van Alstine, E., 27.  
 Vanatter, P. O., 22.



- Van Auken, C. H., 64.  
 Vance, J. I., 58.  
 Van Cleave, S. M., 37.  
 Van Cleef, M., 62.  
 Van Darthard, M., 10.  
 Van Dine, D. L., 4, 23.  
 Vandiver, M., 41.  
 Van Dyck, F. C., 59.  
 Van Dyke, J. C., 59.  
 Van Es, L., 67, 68.  
 Van Hise, C. R., 5, 94.  
 Van Leenhoff, J. W., 4, 77.  
 Van Liew, M. S., 73.  
 Van Meter, A., 26.  
 Van Norman, H. E., 74, 76.  
 Van Pelt, H. G., 30, 32.  
 Van Rensselaer, M., 64.  
 Van Slyke, L. L., 62.  
 Van Steenbergh, W. H., 58.  
 Van Storm, A., 32.  
 Van Zile, M. P., 33.  
 Vaughan, L. L., 65.  
 Vaughan, R. E., 87.  
 Vaughn, E. C., 36.  
 Vawter, C. E., 88.  
 Vaulx, J. R., 30.  
 Vedder, H. K., 44.  
 Vernon, J. J., 20.  
 Vibrans, G., 85.  
 Vincent, C. C., 73.  
 Vinson, A. E., 11.  
 Viol, C. H., 81.  
 Vivian, A., 69.  
 Vivian, C. A., 10.  
 Volck, W. H., 15.  
 von Ende, C., 25.  
 Voorhees, E. B., 5, 59, 60.  
 Voorhees, F. M., 58.  
 Voorhees, J. F., 82.  
 Votey, J. W., 86.  
 Vought, S. W., 82.  
 Vredenburgh, W. H., 58.  
 Vroom, G. D. W., 58.  
 Vye, J. A., 47, 48.  
 Wabnitz, L., 33.  
 Wachter, H. M., 70.  
 Wade, C. I., 87, 88.  
 Waggener, R. L., 10.  
 Wagner, H., 29.  
 Wagner, J., 29.  
 Waid, E. D., 40.  
 Wainwright, F. L., 48.  
 Wait, C. E., 82.  
 Walcott, W. H., 10.  
 Walden, B. H., 17.  
 Waldo, C. H., 72.  
 Waldron, C. B., 67, 68.  
 Waldron, E. W., 11.  
 Waldron, J. W., 24.  
 Waldron, L. R., 68.  
 Waldron, M. M., 89.  
 Wale, J. H., 24.  
 Walker, A. T., 53.  
 Walker, E., 12, 13.  
 Walker, E. S., 20.  
 Walker, F. M., 85.  
 Walker, G. W., 88.  
 Walker, J. A., 8.  
 Walker, L. L., 35.  
 Walker, L. S., 44.  
 Walker, W. H., 74.  
 Walker, W. L., 85, 86.  
 Wallace, E. M., 40.  
 Wallace, J. S., 49.  
 Wallace, R. C. E., 70.  
 Wallace, W. H., 44.  
 Waller, C. H., 84.  
 Waller, O. L., 91, 92.  
 Wallin, L. M., 67.  
 Walsh, J. H., 41.  
 Walster, H. L., 95, 96.  
 Walters, H. L., 91.  
 Walters, J. D., 33.  
 Wannamaker, J. E., 78.  
 Warburg, P. M., 9.  
 Ward, A. R., 14.  
 Ward, B. R., 33.  
 Ward, J. B., 60.  
 Wardall, R. A., 69.  
 Warner, F., 34.  
 Warner, F. M., 44.  
 Warren, G. F., 63, 64.  
 Warren, J. W., 23.  
 Warshaw, J., 45.  
 Wartmann, E. L., 20, 21.  
 Waschka, S. A., 84.  
 Washburn, F. L., 47, 48.  
 Washburn, R. M., 86, 87.  
 Washburn, W. F., 40.  
 Washington, A., 90.  
 Washington, B. T., 9, 10.  
 Washington, Mrs. B. T., 10.  
 Wason, E. H., 57.  
 Waterbury, I. R., 44.  
 Waters, C., 31.  
 Waters, H. J., 51, 52.  
 Wathen, R. N., 35.  
 Watkins, A., 61.  
 Watkins, L. J., 10.  
 Watkins, O. S., 27.  
 Watson, E. J. (La.), 39.  
 Watson, E. J. (R. I.), 77.  
 Watson, I., 39.  
 Watson, J. P., 31.  
 Watson, J. V. B., 77.  
 Watts, R. L., 74, 76.  
 Waugh, F. A., 43, 44.  
 Waugh, L., 75.  
 Weakley, C. E., 93.  
 Weatherford, J. K., 72.  
 Weatherby, L. S., 71.  
 Webb, E. M., 50.  
 Webb, J. H., 17.  
 Webb, R. D., 8.  
 Webb, W. S. (Ky.), 36.  
 Webb, W. S. (Vt.), 86.  
 Webber, H. J., 63, 64.  
 Weber, H. A., 69.  
 Weber, H. R., 83.  
 Webster, E. H., 33, 34.  
 Webster, J. M., 60.  
 Webster, R. L., 31, 32.  
 Webster, S. H., 77.  
 Webster, W. C., 55.  
 Weddell, F. J., 49.  
 Weeks, E., 33.  
 Weir, W. W., 5.  
 Welborn, W. C., 84.  
 Weldon, G. P., 17.  
 Wellington, C., 43.  
 Wellington, R., 62.  
 Wells, C., 51.  
 Welsh, J. P., 74.  
 Welton, F. A., 70.  
 Weniger, W., 73.  
 Wentworth, E. N., 31.  
 Wergeland, A. M., 96.  
 Wertebaker, T. J., 83.  
 Werthmueller, F. R., 24.  
 Wessels, P. H., 78.  
 West, F. L., 85.  
 West, R. A., 53.  
 West, W., 81.  
 Westinghouse, H. H., 62.  
 Wheeler, B. I., 13.  
 Wheeler, C. A., 18.  
 Wheeler, G. C., 33, 34.  
 Wheeler, H. H., 10.  
 Wheeler, H. J., 5, 77, 78.  
 Wheeler, W., 43.  
 Wheeler, W. P., 62.  
 Wheeler, X., 81.  
 Whelan, J. B., 33.  
 Whetzel, H. H., 63, 64.  
 Whipple, F. R., 93.  
 Whipple, L. F., 78.  
 Whipple, O. B., 16.  
 White, A. D., 62.  
 White, B., 90.  
 White, D. S., 69.  
 White, E., 70.  
 White, E. A. (Ill.), 26.  
 White, E. A. (Mass.), 43.  
 White, E. U., 69.  
 White, G. B., 79.  
 White, H. B., 48.  
 White, H. C., 5, 21, 22.  
 White, H. L., 68.  
 White, H. V., 74.  
 White, J. G. (Ky.), 35.  
 White, J. G. (Pa.), 74.  
 White, J. M., 48.  
 White, J. W., 75, 76.  
 White, M. H., 12.  
 White, M. R., 36.  
 White, P. J., 63, 64.  
 White, S., 90.  
 White, T. H., 42.  
 White, W. R., 75.  
 Whitecotton, J. W. N., 84.  
 Whitehill, A. R., 92, 93.  
 Whiteman, J. H., 18.  
 Whiting, A. L., 78.  
 Whitman, C. H., 59.  
 Whitmore, W. G., 54.  
 Whitney, E. M., 18.  
 Whitney, F. L., 38.  
 Whitney, I. P., 91, 92.  
 Whitridge, G. B., 48.  
 Whitson, A. R., 94, 95.  
 Whittaker, J. C., 80.  
 Whittmore, G., 58.  
 Whittmore, G. A., 75.  
 Whitten, J. C., 51, 52.  
 Whittier, A. C., 70.  
 Whoriskey, R., jr., 57.  
 Wiancko, A. T., 28, 29.  
 Wiatt, J. E., 7.  
 Wicks, W. H., 58.  
 Wickson, E. J., 5, 13, 14.  
 Widtsoe, J. A., 85.  
 Wieting, C. A., 62.  
 Wilborn, A. J., 9.  
 Wilcox, E. M. (Nebr.), 55, 56.  
 Wilcox, E. M. (S. Dak.), 80.  
 Wilcox, E. V., 4, 23.  
 Wilcox, R. M., 61.  
 Wildman, M. S., 51.  
 Wiley, H. W., 6.  
 Wiley, R. C., 34.  
 Wilhoit, A. D., 47, 48.  
 Wilken, F. A., 46.  
 Wilkinson, J. A., 9.  
 Wilkinson, R. S., 80.  
 Willard, D. E., 67.  
 Willard, H. R., 40.  
 Willard, J. M., 74.  
 Willard, J. T., 33, 34.  
 Willcox, W. G., 67.  
 Williams, C. B., 66.  
 Williams, C. G., 70.  
 Williams, E. L., 62.  
 Williams, H. E., 93.  
 Williams, J. E., 88.  
 Williams, L. F., 65.



- Williams, L. J., 92.  
 Williams, P. F., 8.  
 Williams, R. B., 62.  
 Williams, R. H., 70.  
 Williams, W. B., 10.  
 Williams, W. M., 73.  
 Williams, W. R., 66.  
 Williamson, L. H., 60.  
 Willis, C. (Kans.), 34.  
 Willis, C. (S. Dak.), 81.  
 Willoughby, C. L., 22.  
 Willson, A. E., 35.  
 Willson, C. A., 51, 52.  
 Wilmore, J. J., 7.  
 Wilson, A. D., 47, 48.  
 Wilson, A. H., 7.  
 Wilson, A. W., 48.  
 Wilson, C. S., 63, 64.  
 Wilson, E. E., 72.  
 Wilson, E. M., 23.  
 Wilson, E. S., 53.  
 Wilson, F. D., 88.  
 Wilson, F. W., 11.  
 Wilson, H. S., 42.  
 Wilson, J., 30, 41.  
 Wilson, J. H., 29.  
 Wilson, J. K., 62.  
 Wilson, J. W., 80, 81.  
 Wilson, L. B., 42.  
 Wilson, R. F., 70.  
 Wilson, R. N., 20.  
 Wilson, S. M., 91.  
 Wilson, T., 46.  
 Wilson, T. B., 62.  
 Wilson, W. M., 64.  
 Wing, H. H., 63, 64.  
 Wingard, E. R., 38.  
 Wingert, H. S., 70.  
 Winslow, E. B., 39.  
 Winslow, S. P. H., 90.  
 Winter, M. K., 54.  
 Winters, R. Y., 20.  
 Withers, W. A., 6, 65,  
     66.  
 Withycombe, J., 72, 73.  
 Wolf, T. R., 19.  
 Woll, F. W., 94, 95.  
 Wood, C. W., 10.  
 Woodard, C. S., 10.  
 Woodard, T. E., 85.  
 Woodbury, C. G., 29.  
 Woodbury, G., 57.  
 Woodford, S. L., 62.  
 Woodman, F. W., 52.  
 Woodman, L. E., 40.  
 Woodruff, O., 60.  
 Woodruff, R. S., 17.  
 Woodruff, W. B., 84.  
 Woods, C. D., 5, 40.  
 Woodward, G. H., 34.  
 Woodward, J. A., 74.  
 Woodward, T. E., 86.  
 Woodworth, C. W., 13,  
     14.  
 Woofert, T. J., 22.  
 Wooton, E. O., 61.  
 Working, D. W., 93.  
 Workizer, J. G., 55.  
 Worst, J. H., 67, 68.  
 Worth, P. S., 75.  
 Worthington, E. F., 36.  
 Wright, A. L., 75.  
 Wright, C. D., 43.  
 Wright, F. B., 87.  
 Wright, J. O., 5.  
 Wright, R. G., 59.  
 Wright, R. R., 22.  
 Wright, W. J., 45.  
 Wright, W. R., 71.  
 Wyckoff, W. F., 58.  
 Wyman, A. P., 26.  
 Wyse, B. A., 71.  
 Yates, H. A., 12.  
 Yates, J. S., 53.  
 Yates, J. W., 10.  
 Yates, R. E. L., 65.  
 Yeaw, F. L., 14.  
 Yocum, W. F., 20.  
 Yoder, P. A., 38.  
 Yonge, P. K., 20, 21.  
 York, J. A., 8.  
 Yorke, P. C., 13.  
 Yothers, M. A., 45, 46.  
 Young, G. S., 81.  
 Young, H. D., 13.  
 Young, J. M., 23.  
 Young, J. S. E., 65.  
 Young, N. B., 21.  
 Young, R., 70.  
 Zackheim, I., 71.  
 Zeininger, D., 33.  
 Zembrod, A. C., 35.  
 Zimmerman, M., 31.  
 Zmunt, V., 29.





## THE AGRICULTURAL COLLEGES.

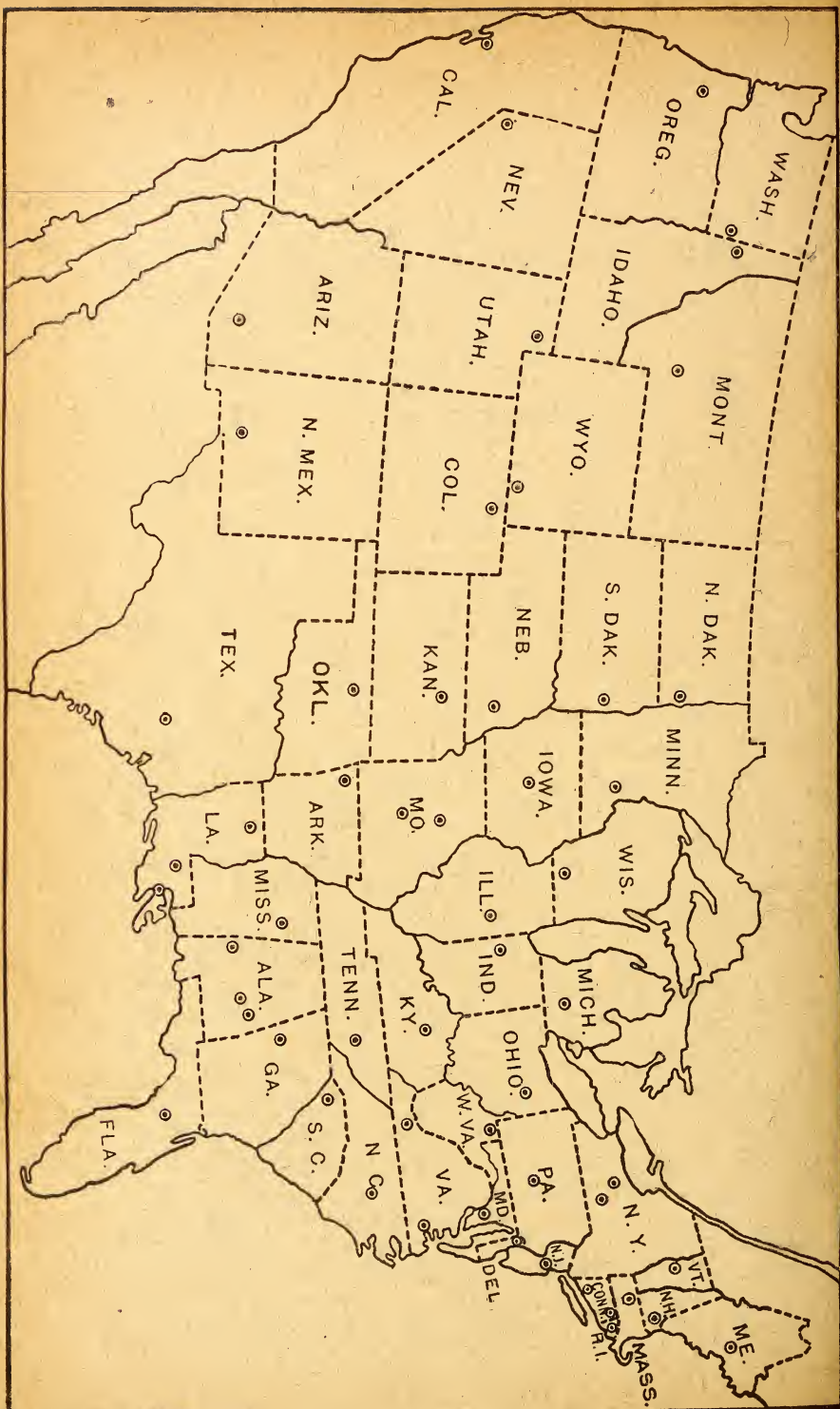
- ALABAMA—*Auburn*: Charles C. Thach.<sup>a</sup>  
*Normal*: Wm. H. Councill.<sup>a</sup> *Tuskegee Institute*: Booker T. Washington.<sup>b</sup>
- ARIZONA—*Tucson*: Kendrick C. Babcock.<sup>a</sup>
- ARKANSAS—*Fayetteville*: J. N. Tillman.<sup>a</sup>
- CALIFORNIA—*Berkeley*: Benjamin Ide Wheeler.<sup>a</sup>
- COLORADO—*Fort Collins*: Barton O. Aylesworth.<sup>a</sup>
- CONNECTICUT—*Storrs*: C. L. Beach.<sup>a</sup>
- DELAWARE—*Newark*: Geo. A. Harter.<sup>a</sup>  
*Dover*: W. C. Jason.<sup>a</sup>
- FLORIDA—*Gainesville*: Andrew Sledd.<sup>a</sup>  
*Tallahassee*: Nathan B. Young.<sup>a</sup>
- GEORGIA—*Athens*: Andrew M. Soule.<sup>a</sup>  
*Savannah*: R. R. Wright.<sup>a</sup>
- HAWAII—*Honolulu*: J. W. Gilmore.<sup>a</sup>
- IDAHO—*Moscow*: J. A. MacLean.<sup>a</sup>
- ILLINOIS—*Urbana*: E. J. James.<sup>a</sup>
- INDIANA—*Lafayette*: Winthrop Ellsworth Stone.<sup>a</sup>
- IOWA—*Ames*: Albert Boynton Storms.<sup>a</sup>
- KANSAS—*Manhattan*: Ernest R. Nichols.<sup>a</sup>
- KENTUCKY—*Lexington*: J. K. Patterson.<sup>a</sup> *Frankfort*: J. H. Jackson.<sup>a</sup>
- LOUISIANA—*Baton Rouge*: Thos. D. Boyd.<sup>a</sup> *New Orleans*: H. A. Hill.<sup>a</sup>
- MAINE—*Orono*: George Emory Fellows.<sup>a</sup>
- MARYLAND—*College Park*: R. W. Silvester.<sup>a</sup> *Princess Anne*: Frank Trigg.<sup>b</sup>
- MASSACHUSETTS—*Amherst*: Kenyon L. Butterfield.<sup>a</sup>
- MICHIGAN—*East Lansing*: J. L. Snyder.<sup>a</sup>
- MINNESOTA—*St. Anthony Park*: St. Paul: Cyrus Northrop.<sup>a</sup>
- MISSISSIPPI—*Agricultural College*: J. C. Hardy.<sup>a</sup> *Alcorn*: L. J. Rowan.<sup>a</sup>
- MISSOURI—*Columbia*: Albert R. Hill.<sup>a</sup>  
*Jefferson City*: B. F. Allen.<sup>a</sup>
- MONTANA—*Bozeman*: Jas. M. Hamilton.<sup>a</sup>
- NEBRASKA—*Lincoln*: Samuel Avery.<sup>c</sup>
- NEVADA—*Reno*: Joseph E. Stubbs.<sup>a</sup>
- NEW HAMPSHIRE—*Durham*: Wm. D. Gibbs.<sup>a</sup>
- NEW JERSEY—*New Brunswick*: W. H. S. Demarest.<sup>a</sup>
- NEW MEXICO—*Agricultural College*: W. E. Garrison.<sup>a</sup>
- NEW YORK—*Ithaca*: J. G. Schurman.<sup>a</sup>
- NORTH CAROLINA—*West Raleigh*: D. H. Hill.<sup>a</sup> *Greensboro*: James B. Dudley.<sup>a</sup>
- NORTH DAKOTA—*Agricultural College*: J. H. Worst.<sup>a</sup>
- OHIO—*Columbus*: William Oxley Thompson.<sup>a</sup>
- OKLAHOMA—*Stillwater*: J. H. Connell.<sup>a</sup>  
*Langston*: Inman E. Page.<sup>a</sup>
- OREGON—*Corvallis*: W. J.<sup>a</sup> Kerr.<sup>a</sup>
- PENNSYLVANIA—*State College*: Edwin E. Sparks.<sup>a</sup>
- RHODE ISLAND—*Kingston*: Howard Edwards.<sup>a</sup>
- SOUTH CAROLINA—*Clemson College*: P. H. Mell.<sup>a</sup> *Orangeburg*: Thomas E. Miller.<sup>a</sup>
- SOUTH DAKOTA—*Brookings*: R. L. Slagle.<sup>a</sup>
- TENNESSEE—*Knoxville*: Brown Ayres.<sup>a</sup>
- TEXAS—*College Station*: R. T. Milner.<sup>a</sup>  
*Prairieview*: E. L. Blackshear.<sup>b</sup>
- UTAH—*Logan*: J. A. Widtsoe.<sup>a</sup>
- VERMONT—*Burlington*: M. H. Buckham.<sup>a</sup>
- VIRGINIA—*Blacksburg*: P. B. Barringer.<sup>a</sup> *Hampton*: H. B. Frissell.<sup>b</sup>
- WASHINGTON—*Pullman*: E. A. Bryan.<sup>a</sup>
- WEST VIRGINIA—*Morgantown*: D. B. Purinton.<sup>a</sup> *Institute*: J. McHenry Jones.<sup>a</sup>
- WISCONSIN—*Madison*: Chas. Richard Van Hise.<sup>a</sup>
- WYOMING—*Laramie*: Chas. O. Merica.<sup>a</sup>

<sup>a</sup> President.

<sup>b</sup> Principal.

<sup>c</sup> Acting chancellor.





THE AGRICULTURAL EXPERIMENT STATIONS OF THE UNITED STATES.